

# READING FOR THE BLIND

# NEW LIBRARY

# DRAPER PRISON

BID DOCUMENTS (REDESIGN)  
JULY 07, 2010



STATE OF UTAH  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT  
4110 State Office Building / Salt Lake City, Utah 84114 / 801.538.3018 / www.dfcu.utah.gov  
DFCM PROJECT NO. 09223080

## DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. After submittals are reviewed for general conformance by the architect and engineer of record, deferred submittals must be submitted to the building official for approval and that deferred items are not to be installed until approved by the building official (see IBC 106.3.4.2). Deferred submittals for this project are:

- 1) PRE-ENGINEERED METAL BUILDING  
(expected to be submitted within one month after bid has been awarded)
- 2) CHAIN-LINK FENCING AND GATES  
(expected to be submitted within one month after bid has been awarded)



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CIVIL ENGINEER



NOLTE ENGINEERING

5217 SOUTH STATE STREET #300 MURRAY, UTAH 84107  
801.743.1300 / www.nolte.com

STRUCTURAL ENGINEER



BHB CONSULTING ENGINEERS

2766 SOUTH MAIN STREET / SALT LAKE CITY, UTAH 84115  
801.355.5656 / www.bhbengineers.com

MECHANICAL ENGINEER



SMD ENGINEERING, PLLC

986 WEST ATHERTON DRIVE, SUITE 200 / TAYLORSVILLE,  
UTAH 84123 801.268.3828 / www.smdengineering.com

ELECTRICAL ENGINEER



SPECTRUM ENGINEERS

324 SOUTH STATE STREET #400 / SALT LAKE CITY, UTAH 84111  
801.328.5151 / www.spdesign.com



## ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
AL.	ALUMINUM
ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT
&	AND
L	ANGLE
APPD.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT OR ARCHITECTURAL
AC	ARCHITECTURAL CONCRETE
AVG.	AVERAGE
@	AT
BLW	BELOW
BM	BEAM
BLKG.	BLOCKING
BOT	BOTTOM
B.O.P.W.	BOTTOM OF PARPAET WALL
BRKT.	BRACKET
BLDG.	BUILDING
CSMU	CALCIUM SILICATE MASONRY UNIT
C.B.	CATCH BASIN
CTR.	CENTER
CL	CENTERLINE
C TO C	CENTER TO CENTER
[	CHANNEL
C.O.	CLEANOUT
COL.	COLUMN
COMP.	COMPOSITION
C.M.U.	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
C.J.	CONTROL JOINT
CSK.	COUNTERSINK
CU.	CUBIC
CU. FT.	CUBIC FOOT
CFM	CUBIC FEET PER MINUTE
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DEPT.	DEPARTMENT
DIAG.	DIAGONAL
Ø	DIAMETER
DIM.	DIMENSION
DR	DOOR
DBL	DOUBLE
DWG.	DRAWING
(E)	EXISTING
ELEC.	ELECTRICAL
EWC	ELECTRIC WATER COOLER
EL.	ELEVATION
EQUIP.	EQUIPMENT
EJ / EXP. JT.	EXPANSION JOINT
EIFS	EXTERIOR INSULATION FINISH SYSTEM
F.S.	FAR SIDE
FT. or'	FEET OR FOOT
F.V.	FIELD VERIFY
F.F.	FINISH FLOOR
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
FRT	FIRE RETARDANT TREATED
FD	FLOOR DRAIN
FLUOR.	FLUORESCENT
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
GA.	GAGE OR GAUGE
GSU	GLAZED STRUCTURAL UNIT
GYP. BD.	GYPSPUM BOARD
HDW.	HARDWARE
HGT.	HEIGHT
HSB	HIGH STRENGTH BOLT
HORIZ.	HORIZONTAL
"	INCH
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INTER.	INTERMEDIATE
K	KIP (1,000 LB.)
LAB.	LABORATORY
MFG.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NBFU	NATIONAL BOARD OF FIRE UNDERWRITERS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. or #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
d	PENNY
/	PERPENDICULAR
Ø	PHASE
LB. or #	POUND
PREFAB.	PREFABRICATED
P/L	PROPERTY LINE
R	RADIUS
REINF.	REINFORCING
REQ'D.	REQUIRED
REV.	REVISION
R&S	ROD & SHELF
RD	ROOF DRAIN
RM	ROOM
RD. or Ø	ROUND
SHT.	SHEET
SIM.	SIMILAR
SAB	SOUND ATTENUATION BLANKET
SPEC.	SPECIFICATION
SQ. or	SQUARE
SYM.	SYMMETRICAL
SSEIS	SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM
T.O.M.	TOP OF MASONRY
T.O.P.W.	TOP OF PARPAET WALL
T.B.C.	TOP BACK OF CURB
T.L.	TOP OF LANDSCAPING
T.W.	TOP OF WALK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL
UN.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VWC.	VINYL WALL COVERING
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

## MATERIAL DESIGNATIONS

	EARTH
	POROUS FILL
	ASPHALT
	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK
	CAST STONE
	WOOD (FINISH)
	WOOD (STUDS, NAILERS)
	WOOD (BLOCKING)
	PLYWOOD
	BATT INSULATION
	RIGID INSULATION
	ACOUSTIC TILE
	GYPSPUM BOARD
	STEEL
	PARTICLE BOARD
	RIGID INSULATION

## GRAPHIC SYMBOLS

	DETAIL/WALL or SECTION NUMBER
	SHEET NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	ROOM NAME
	ROOM NUMBER
	REVISION NUMBER
	DETAIL, WALL or SECTION NUMBER
	SHEET NUMBER
	GRID REFERENCE
	REFERENCE NORTH (PLANS)
	ELEVATION REFERENCE
	KEYED NOTE NUMBER
	INTERIOR ELEVATION MARKER
	EXTERIOR ELEVATION MARKER
	WALL TYPES
	DRAWINGS REVISION
	REVISION NUMBER

## CODE ANALYSIS

APPLICABLE CODES				
Year		Year		
International Building Code	2006	National Electrical Code	2008	
International Mechanical Code	2006	Uniform Code for Building Conservation	N.A.	
International Plumbing Code	2006	ADA Accessibility Guidelines	2003 ANSI 117.1 1994 ADAG	
International Fire Code	2006			
International Energy Conservation Code				

A. Occupancy and Group: B

Change in Use: Yes No X Mixed Occupancy: Yes No X  
Special Use and Occupancy (e.g. High Rise, Covered Mall):

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):  
I I II II III IV V V  
A B A A A A B B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: Nonseparated Uses: NO

F. Sprinklers:  
Required: NO Provided: NO Type of Sprinkler System: N/A

G. Number of Stories: 1 Building Height: 15' - 7"

H. Actual Area per Floor (square feet): 2,653

I. Tabular Area: 23,000

J. Area Modifications: N.A.

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	N.A.	
Partitions - Permanent	0		Fire Walls	N.A.	
Fire Barriers	0		Fire Partitions	N.A.	
			Smoke Partitions	N.A.	

L. Design Occupant Load: 28  
Exit Width Required: 5.6 Exit Width Provided: 72"

M. Minimum Number of Required Plumbing Facilities:  
a) Water Closets - Required (m) 2 (f) 1\* Provided (m) 3 (f) 1\*  
b) Lavatories - Required (m) 1 (f) 1\* Provided (m) 2 (f) 1\*  
c) Bath Tubs or Showers: N.A.  
d) Drinking Fountains: 1 Service Sinks: 1  
**\* 1 TOILET ROOM IS "UNISEX" - 1 STAFF FEMALE - USERS ARE ALL MALE**

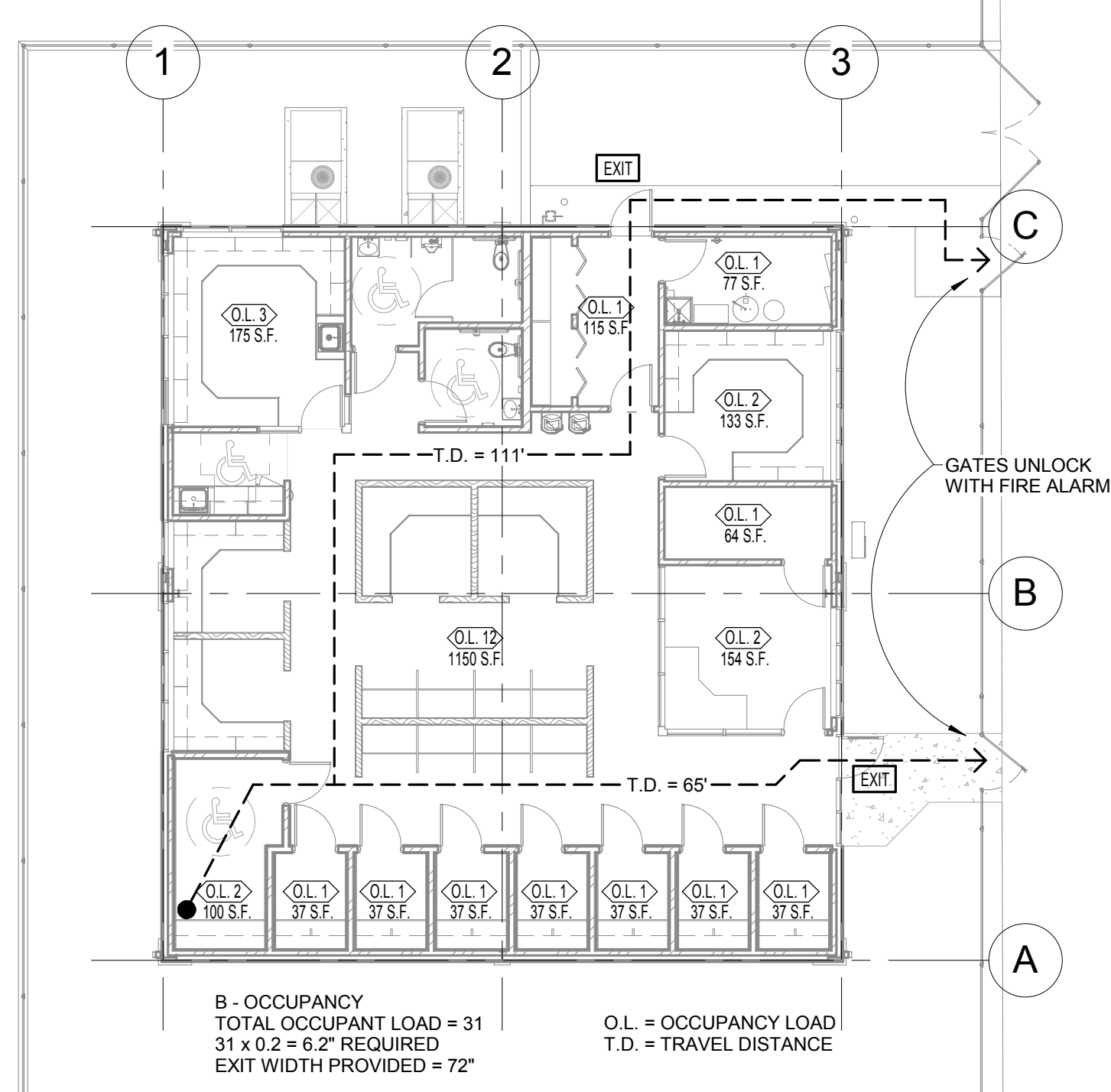
FOOTNOTES:  
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through VI - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.  
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:  
a) High Rise Requirements.  
b) Atriums.  
c) Performance Based Criteria.  
d) Means or Egress Analysis.  
e) Fire Assembly Locator Sheet.  
f) Exterior and Interior Accessibility Route.  
g) Fire Stopping, Including Tested Design Number.

## DRAWING INDEX

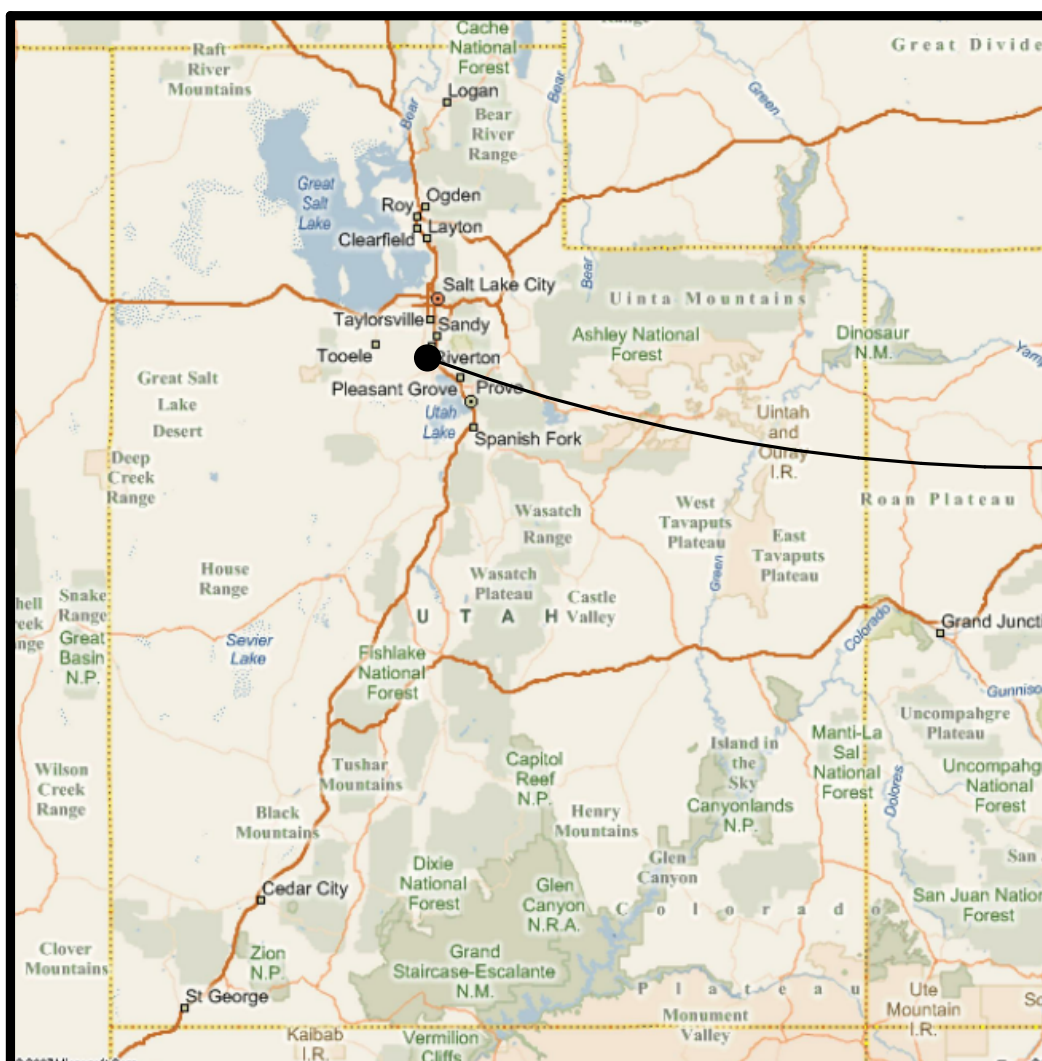
SHT. #	DRAWING TITLE
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
GI-003	SPECIAL TESTING AND INSPECTION
GI-004	GENERAL ADA INFORMATION
	<b>CIVIL:</b>
CE-101	GENERAL NOTES
CE-102	DEMOLITION AND EROSION CONTROL PLAN
CE-103	SITE GRADING, DRAINAGE AND UTILITY PLAN
CE-104	APWA DETAILS - VARIOUS
CE-105	APWA DETAILS - VARIOUS
	<b>STRUCTURAL:</b>
SJ001	GENERAL STRUCTURAL NOTES
SB101	FOOTING AND FOUNDATION PLAN
SB501	FOOTING AND FOUNDATION DETAILS
SB601	STRUCTURAL DETAILS
	<b>ARCHITECTURAL:</b>
AS-101	SITE PLAN
AE-101	FLOOR PLAN
AE-102	DIMENSION PLAN
AE-103	REFLECTED CEILING PLAN
AE-104	ROOF PLAN
AE-201	EXTERIOR ELEVATIONS
AE-202	EXTERIOR ELEVATIONS
AE-203	INTERIOR ELEVATIONS
AE-204	INTERIOR ELEVATIONS
AE-205	INTERIOR ELEVATIONS
AE-301	BUILDING SECTIONS
AE-302	BUILDING SECTIONS
AE-303	BUILDING SECTIONS
AE-304	WALL SECTIONS
AE-305	WALL SECTIONS
AE-306	WALL SECTIONS
AE-501	DETAILS
AE-502	DETAILS
AE-503	DETAILS
AE-504	DETAILS
AE-601	DOOR & FINISH SCHEDULES
AE-602	WINDOW SCHEDULE & WALL TYPES

## DRAWING INDEX

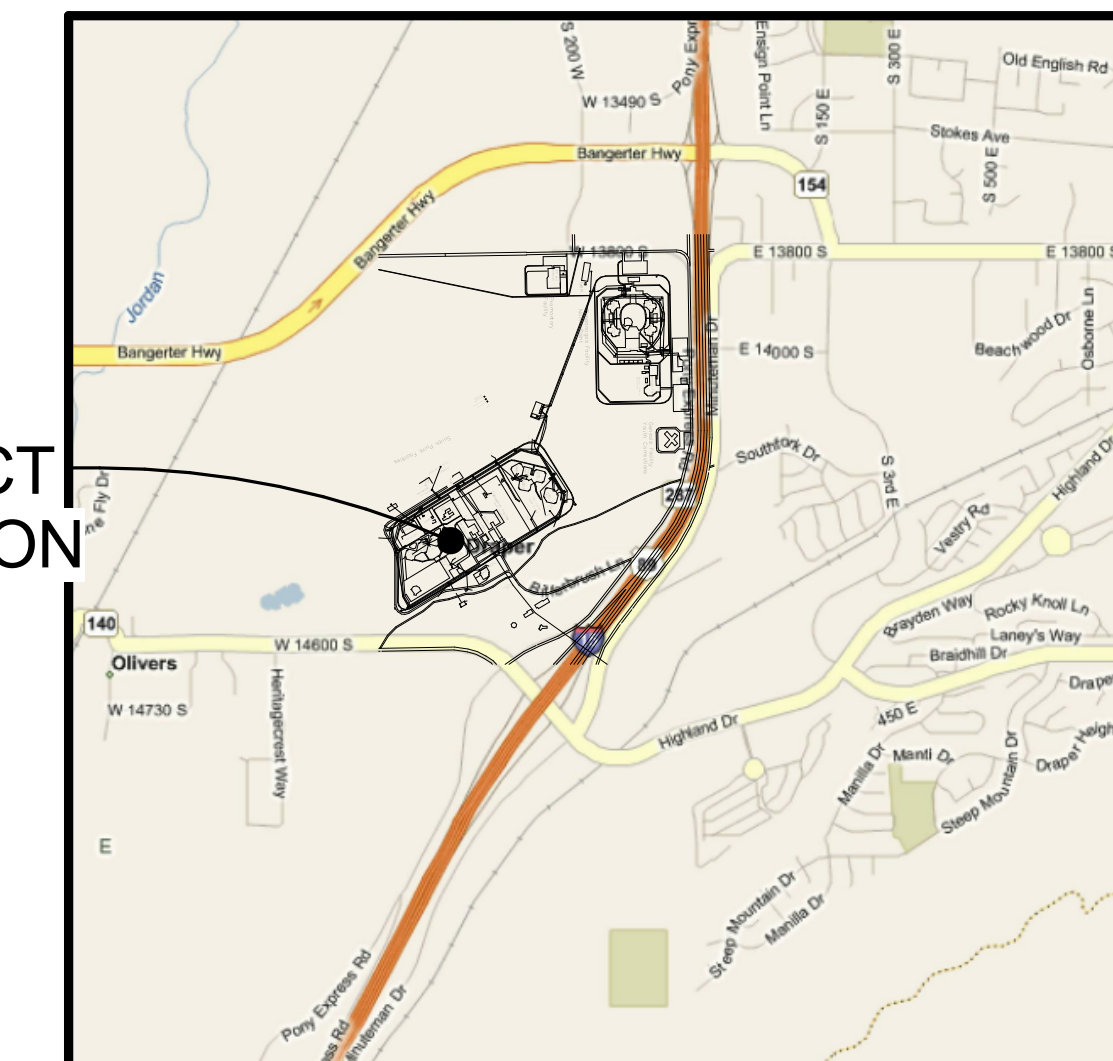
SHT. #	DRAWING TITLE
	<b>MECHANICAL:</b>
MH-001	MECHANICAL LEGENDS AND NOTES
MH-101	MECHANICAL FLOOR PLAN
MH-501	MECHANICAL DETAILS
MH-601	MECHANICAL SCHEDULES
PP-101	PLUMBING FLOOR PLAN
PP-501	PLUMBING DETAILS
PP-601	PLUMBING SCHEDULES
PP-701	PLUMBING ISOMETRIC
	<b>ELECTRICAL:</b>
EE-001	SHEET INDEX, ABBREVIATIONS, DEFINITIONS, GENERAL NOTES
EE-002	SYMBOL LEGEND
EE-701	TYPICAL MOUNTING HEIGHTS
ES-101	ELECTRICAL SITE PLAN
EP-101	POWER PLAN
EP-601	ONE-LINE DIAGRAM
EP-602	EQUIPMENT & PANEL SCHEDULES
EL-101	LIGHTING PLAN
EL-601	LIGHTING FIXTURE SCHEDULE
EY-101	SECURITY PLAN
EY-601	SECURITY DIAGRAM & SCHEDULES



B4 OCCUPANCY & EXITING PLAN  
3/32" = 1'-0"



A4 LOCATION MAP  
12" = 1'-0"



A5 VICINITY MAP  
12" = 1'-0"

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#1 01/12/2010 DESIGN DEVELOPMENT SUBMITTAL  
#2 03/01/2010 100% FINAL REVIEW SET  
#3 04/04/2010 BID DOCUMENTS  
#4 07/07/2010 BID DOCUMENTS (REDESIGN)

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SHEET TITLE:  
**GENERAL  
INFORMATION**

SHEET NUMBER:  
**GI-002**











Last Plotted:

GENERAL NOTES:

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CURRENT REGULATORY AUTHORITIES STANDARDS AND SPECIFICATIONS, AND THE UTAH CHAPTER OF THE 2007 EDITION AMERICAN PUBLIC WORKS ASSOCIATION MANUAL OF STANDARD PLANS AND SPECIFICATIONS IN ITS LATEST EDITION (APWA), WHERE APPLICABLE.
- CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- SAFETY MEASURES, CONSTRUCTION METHODS AND CONTROL OF WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE AND HAVE A TACK COAT APPLIED (DOES NOT INCLUDE UNTRADED BASE COURSE).
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ARCHITECT/ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE FOR COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
- BIDDER/CONTRACTORS ARE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING BIDS TO MAKE THEMSELVES AWARE OF ANY POTENTIAL PROBLEMS WHILE CONSTRUCTING THE FACILITIES PER THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND BEST MANAGEMENT PRACTICES IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES, FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT.
- CONTRACTOR SHALL MAKE THEMSELVES AWARE OF EXISTING SOIL CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAG MEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.

UTILITY NOTES:

- CONTRACTOR IS TO COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
- CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIRED PROCEDURES.
- CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT HIS EXPENSE.
- ALL VALVES AND MANHOLES COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE. CONCRETE FOR UTILITY GRATE COVERS TO BE 1/4" MIN. TO 1/2" MAX. BELOW PAVEMENT UP ALL AROUND, PER APWA STANDARD.
- MAINTAIN A MINIMUM 18-INCH VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.
- CONTRACTOR MUST START INSTALLATION AT LOW END OF ALL NEW GRAVITY UTILITY LINES.
- EVEN THOUGH ALL UTILITY SERVICES TO INDIVIDUAL STRUCTURES MAY NOT BE SHOWN FOR CLARITY, THEY DO EXIST AND SHALL BE KEPT IN SERVICE AT NO ADDITIONAL COST TO OWNER.
- ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF, SIDEWALK AND ASPHALT PAVING.
- THIS IS STATE PROPERTY. UTILITY LOCATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR USING MEANS DETERMINED BY THEM. PUBLIC LOCATORS WILL NOT STAKE THE PROPERTY.

CONSTRUCTION NOTES:

- ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS OR NOT.
- ALL NEW CULINARY WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH REGULARITY AUTHORITIES AND APWA CURRENT EDITION STANDARDS & SPECIFICATIONS.
- ALL NEW SANITARY SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH REGULATORY AUTHORITIES AND APWA CURRENT EDITION STANDARDS & SPECIFICATIONS.
- ALL MATERIALS REMOVED FROM SITE DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS DESIGNATED BY THE CONSTRUCTION MANAGER.
- ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- SEE ARCHITECT'S PLANS FOR ADDITIONAL INFORMATION.
- CONSTRUCT ASPHALT PAVING ONLY WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES F AND UNDERLYING BASE IS FREE FROM MOISTURE. PERMIT NO VEHICULAR TRAFFIC FOR AT LEAST 24 HOURS AFTER LAYING ASPHALT IMPROVEMENTS (PER UTAH DFCM STANDARDS).
- VARIATION IN THE FINISHED PAVEMENT SURFACE MUST NOT EXCEED 1/8" IN 10 FT IN ANY DIRECTION.
- ASPHALT SHALL COMPLY WITH SPECIFICATIONS PROVIDED

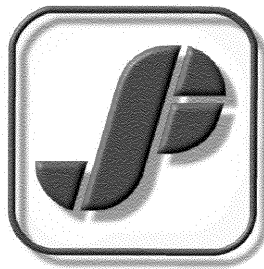
LEGEND:

	EXIST. CURB & GUTTER
	EXIST. SIDEWALK
	EXIST. EDGE OF ASPHALT
	EXIST. CENTERLINE
	EXIST. RIGHT-OF-WAY LINE
	EXIST. FENCE
	EXIST. TREE
	EXIST. CHAIN LINK FENCE
	EXIST. CONTOUR
	EXIST. FIRE HYDRANT
	EXIST. WATER VALVE
	EXIST. WATER MANHOLE/VAULT
	EXIST. WATER RISER
	EXIST. WATER AIR VALVE & RELEASE
	EXIST. WATER LINE
	EXIST. IRRIGATION BOX
	EXIST. IRRIGATION VALVE
	EXIST. IRRIGATION
	EXIST. SEWER M.H.
	EXIST. SEWER LINE
	EXIST. CURB INLET BOX
	EXIST. STORM DRAIN INLET
	EXIST. STORM DRAIN HEADWALL
	EXIST. MANHOLE/CLEANOUT
	EXIST. STORM DRAIN LINE
	EXIST. GAS
	EXIST. GAS METER
	EXIST. GAS RISER
	EXIST. LIGHT POLE
	EXIST. ELECTRICAL BOX
	EXIST. ELECTRICAL MANHOLE
	PROPOSED SIDEWALK
	PROPOSED CURB & GUTTER
	PROPOSED EDGE OF ASPHALT
	PROPOSED CENTERLINE
	PROPOSED FENCE
	DEMOLITION AND REMOVAL AREAS FOR NEW IMPROVEMENTS
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	PROPOSED WATER LINE AND LATERAL
	PROPOSED SEWER M.H.
	PROPOSED SEWER LINE AND LATERAL
	PROPOSED STORM DRAIN INLET
	PROPOSED STREET LIGHT

ABBREVIATIONS:

APWA	AMERICAN PUBLIC WORKS ASSOC.
AC	ASPHALTIC CONCRETE
&	AND
APPR.	APPROXIMATELY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
@	AT
BDRY	BOUNDARY
C.B.	CATCH BASIN
C	CENTERLINE
CL	CLASS
CONC	CONCRETE
DET	DETAIL
DIA	DIAMETER
D.I.P.	DUCTILE IRON PIPE
EG	EDGE OF EXISTING ASPHALT
EG	EXISTING GRADE
EO	EDGE OF OIL
EP	EDGE OF PAVEMENT
ELEV	ELEVATION
ESMT	EASEMENT
EX	EXISTING
FF	FINISH FLOOR
FH	FIRE HYDRANT
FG	FINISH GRADE
FL	FLOW LINE
FT	FEET
GB	GRADE BREAK
HP	HIGH POINT
INV.	INVERT
IE	INVERT ELEVATION
IRR	IRRIGATION
L	LENGTH
LAT	LATERAL
L.F.	LINEAR FEET
LG	LIP OF GUTTER
LP	LOW POINT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTH
NG	NATURAL GRADE
NIC	NOT IN CONTRACT
N.T.S	NOT TO SCALE
O.C.	ON CENTER
PL	PROPERTY LINE
POC	POINT ON CURVE
PP	POWER POLE
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PUE	PUBLIC UTILITY EASEMENT
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
R.O.W.	RIGHT-OF-WAY
SS	SANITARY SEWER
SD	STORM DRAIN
SW	SIDEWALK
SCFH	SOHARBLEFEET
SHT	SHEET
STA	STATION
STD	STANDARD
TA	TOP OF ASPHALT
T.G.	TOP OF GRATE
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TD	TOP OF DOCK FLOOR
TW	TOP OF WALL
TYP	TYPICAL
VAR	VARIES
W	WATER
W/	WITH

ARCHITECT'S INFORMATION:

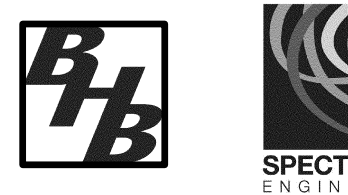


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NO. DATE DESCRIPTION

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NO.	DATE	DESCRIPTION
1	12/09	CLIENT REVIEW
2	02/10	CLIENT REVIEW
3	03/10	FINAL REVIEW DOCUMENTS
4	04/01/10	BID DOCUMENTS
5	06/21/10	CLIENT REVIEW
6	07/07/10	BID DOCUMENTS (REDESIGN)

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CE-101





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- SCOPE OF WORK:**
- 1 SAWCUT AND REMOVE AND PROPERLY DISPOSE OF 1 FT ASPHALT FOR CLEAN EDGE.
  - 2 CLEAR AND GRUB AREA AND REMOVE TOPSOIL
  - 3 INSTALL SILT FENCE (LENGTH = 175 L.F.)
  - 4 REMOVE EXISTING FENCE IN THIS AREA
  - 5 EXISTING EDGE OF GRASS/DIRT LINE

FOR CONSTRUCTION

ARCHITECT'S INFORMATION:



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PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON  
DRAPER, UTAH

REVISIONS:

NO.	DATE	DESCRIPTION
1	12/09	CLIENT REVIEW
2	02/10	CLIENT REVIEW
3	03/10	FINAL REVIEW DOCUMENTS
4	04/20/10	BID DOCUMENTS
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6	07/07/10	BID DOCUMENTS (REDESIGN)

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OWNER PROJECT #:

09223080

SPE PROJECT #:

08-01

DRAWN BY:

NOLTE

CHECKED BY:

NOLTE

DESIGNED BY:

NOLTE

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SHEET TITLE:

DEMOLITION AND  
EROSION  
CONTROL PLAN

SHEET NUMBER:

CE-102

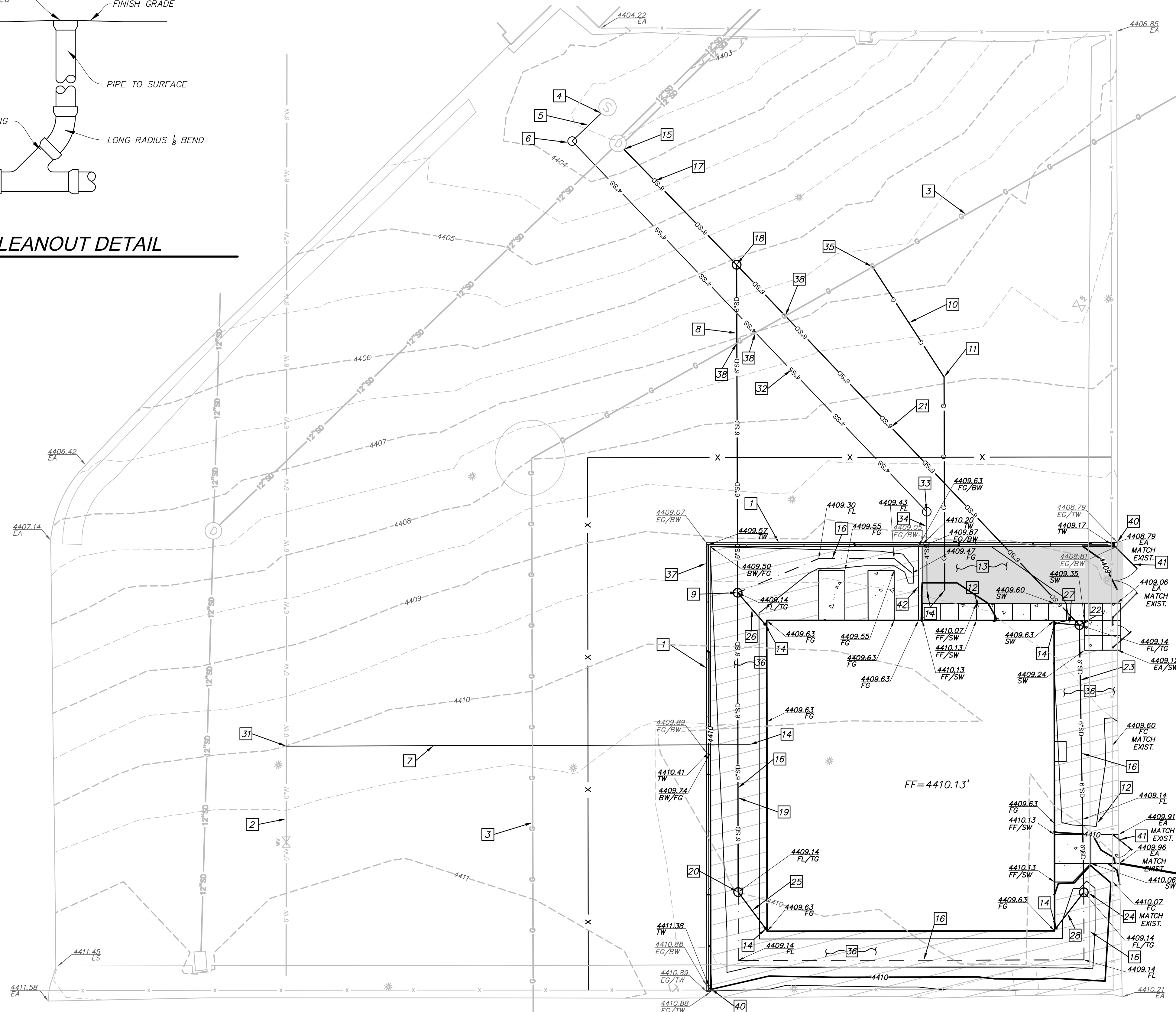
Last Plotted:



Diagram illustrating a vertical pipe configuration with a wye fitting and a long radius bend. The diagram includes the following labels:

- SCREW TYPE PLUG OR 8" NYLOPLAST
- D.I. GRATE AS NOTED
- FINISH GRADE
- PIPE TO SURFACE
- WYE FITTING
- LONG RADIUS  $\frac{1}{8}$  BEND
- DRAIN LINE

SCALE: N.T.S.



3" AC COMPACTED TO 95%  
DENSITY (ASTM 1559)

8" UNTREATED 3/4" MINUS  
BASE COURSE COMPACTED TO  
96% OF MAX. DRY DENSITY  
(ASTM D-1557)

6" GRANULAR SUB BASE  
COMPACTED TO 95% OF MAX.  
DRY DENSITY (ASTM D-1557)


**ASPHALT**  
 SCALE: N.T.S.

NOTE: CONTRACTOR WILL RELOCATE, REROUTE OR REPLACE ANY IRRIGATION SYSTEM DAMAGED DURING CONSTRUCTION OR THAT EXISTS IN THE PROPOSED NEW CONSTRUCTION AREA.

1 INSTALL CHAIN LINK FENCING IN 8" WIDE CONCRETE CURB/WALL. SEE ARCHITECTURAL DRAWING AE-101.

2 EXISTING 6" WATER LINE.

3 EXISTING GAS LINE.

4 CONNECT TO EXISTING SSMH INV. IN = 4395.50

5 INSTALL 6.9 L.F. 4" SDR-35 PVC SEWER LATERAL @ 0.104% SLOPE

6 INSTALL SEWER LATERAL CLEANOUT W/PLUG PER DETAIL B, THIS SHEET, INV. = 4396.20

7 INSTALL 77.8 L.F. 1.5" WATER LATERAL.

8 INSTALL 63.2 L.F. 6" N-12 ADS STORM DRAIN PIPE @ 3.54% SLOPE

9 INSTALL STORM WATER CLEANOUT PER DETAIL B THIS SHEET W/GRATE, INV. = 4402.25

10 CONTRACTOR TO COORDINATE WITH QUESTAR FOR 59.3 L.F. GAS LINE INSTALLATION (BY OTHERS). CONTRACTOR TO INCLUDE ALL COSTS ASSOCIATED WITH THIS GAS LINE INSTALLATION IN THE BID.

11 INSTALL 60 DEGREE BEND

12 INSTALL SIDEWALK PER APWA PLAN NO. 231

13 INSTALL ASPHALT PER DETAIL A, THIS SHEET

14 SEE MECHANICAL PLANS FOR CONTINUATION

15 CONNECT TO EXISTING SSMH INV. IN = 4398.77

16 DRAINAGE SWALE

17 INSTALL 27.8 L.F. 6" N-12 ADS STORM DRAIN PIPE @ 5.32% SLOPE

18 INSTALL STORM WATER CLEANOUT PER DETAIL B THIS SHEET W/PLUG, INV. = 4400.25

19 INSTALL 51.6 L.F. 6" N-12 ADS STORM DRAIN PIPE @ 7.54% SLOPE

20 INSTALL STORM WATER CLEANOUT PER DETAIL B THIS SHEET W/GRATE, INV. = 4406.14

21 INSTALL 85.7 L.F. 6" N-12 ADS STORM DRAIN PIPE @ 1.18% SLOPE

22 INSTALL STORM WATER CLEANOUT PER DETAIL B THIS SHEET W/PLUG, INV. = 4401.26

23 INSTALL 46.0 L.F. 6" N-12 ADS STORM DRAIN PIPE @ 10.61% SLOPE

24 INSTALL STORM WATER CLEANOUT PER DETAIL B THIS SHEET W/GRATE, INV. = 4406.14

25 INSTALL 7.9 L.F. 6" N-12 ADS STORM DRAIN PIPE

26 INSTALL 7.2 L.F. 6" N-12 ADS STORM DRAIN PIPE

27 INSTALL 4.2 L.F. 6" N-12 ADS STORM DRAIN PIPE

28 INSTALL 7.8 L.F. 6" N-12 ADS STORM DRAIN PIPE

29 EXISTING FIRE HYDRANT

30 EXISTING ELECTRICAL BOX, SEE ELECTRICAL DRAWINGS

31 CONNECT TO EXISTING WATER LINE. FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER LINE. VERIFY EXISTING WATER LINE IS NOT ABANDONED AT THIS LOCATION BEFORE INSTALLING PROPOSED WATER LINE.

32 INSTALL 88.4 L.F. 4" SDR-35 PVC SEWER LATERAL @ 7.69% SLOPE

33 INSTALL SEWER LATERAL CLEANOUT PER DETAIL B THIS SHEET W/PLUG, INV. = 4403.00

34 INSTALL 13.5 L.F. 4" SDR-35 PVC SEWER LATERAL

35 CONNECT TO EXISTING GAS LINE

36 INSTALL COMMERCIAL GRADE POLYPROPYLENE WEED BARRIER PER MANUFACTURERS SPECIFICATIONS WITH ¾" MINUS WASHED GRAVEL TO A MINIMUM OF 4" DEEP

37 RETAINING WALL, DESIGN BY OTHERS

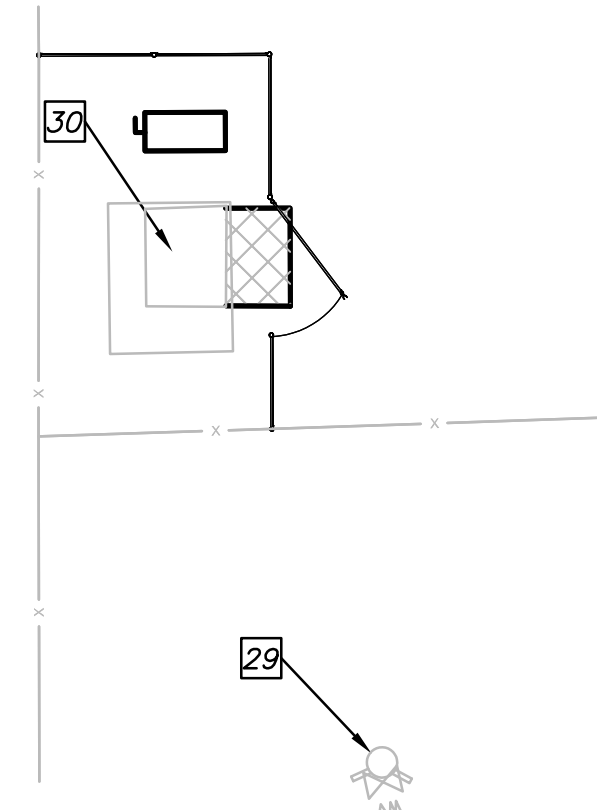
38 CONTRACTOR TO VERIFY LOCATION OF GAS LINE AND NOTIFY ENGINEER IF GAS LINE IS BURIED DEEPER THEN 4' AT EACH UTILITY CROSSING PRIOR TO INSTALLING ANY STORM DRAIN OR SEWER PIPE.

39 NOT USED

40 TAPER WALL/CURB TO MEET EXISTING GRADE

41 INSTALL CHAIN LINK FENCING AND GATE. SEE ARCHITECTURAL DRAWING AE-101.

42 8" WIDE CURB AT EDGE OF ASPHALT. SEE ARCHITECTURAL DRAWING AF-101.

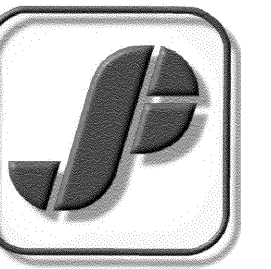


PROJECT  
NORTH

HORIZONTAL SCALE

HORIZONTAL:  $1'' = 10'$

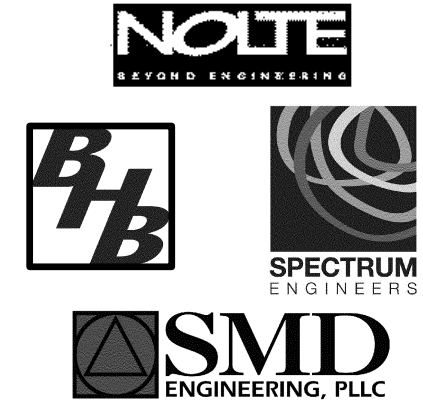
A horizontal scale bar with a black and white checkerboard pattern. It is marked with numbers 0, 2.5, 5, 10, and 15. Above the bar, the text 'HORIZONTAL: 1" = 10\'' is written.



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CONSULTANTS:



PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON  
DRAPER, UTAH

REVISIONS: 		
NO.	DATE	DESCR

ISSUED:

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OWNER PROJECT #:	09223080
SPE PROJECT #:	09-12
DRAWN BY:	NOLTE
CHECKED BY:	NOLTE
DESIGNED BY:	NOLTE

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## SITE, GRADING, DRAINAGE, AND UTILITY PLAN

SHEET NUMBER:

CE-103







Last Plotted:

B

C

D

1

2

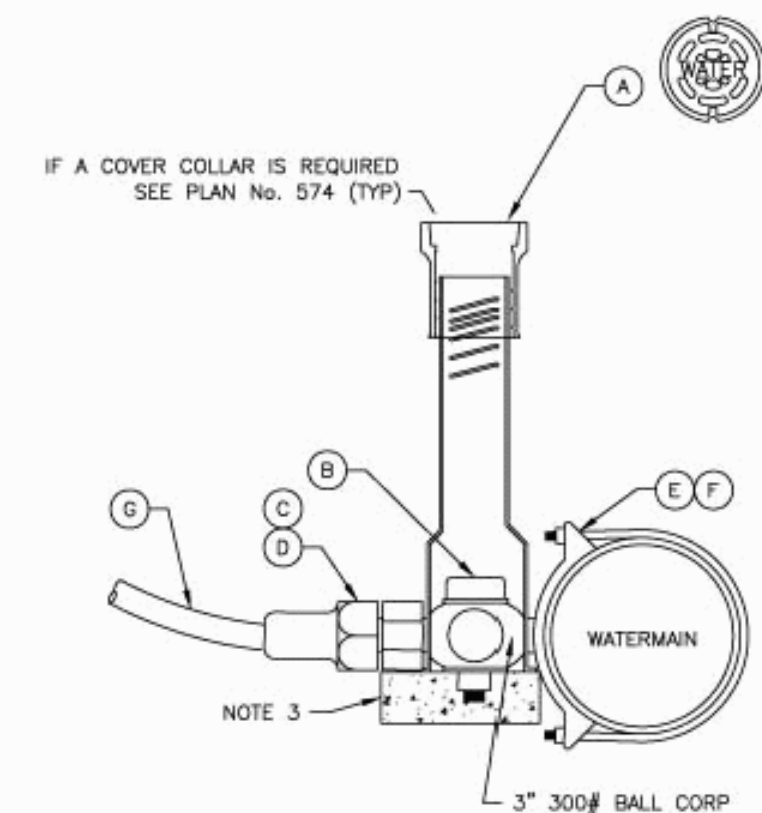
3

4

5



- Direct bearing thrust block**
1. CONCRETE: Class 2000 minimum per APWA Section 03 30 04. Pour concrete against undisturbed soil.
  2. PIPE JOINTS: Do not cover with concrete. Leave completely accessible.
  3. GREASE: Apply poly-fm grease to all buried metal surfaces. Wrap with 8 mil thick polyethylene sheet and tape wrap.
  4. SPECIAL CONSTRUCTION REQUIREMENTS:
    - A. Thrust design for pipe sizes or configurations not shown require special design.
    - B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
    - C. Reinforcing steel bars to be epoxy coated at least 15 mils thick. Minimum stress yield strength of tie down bars is 70,000 psi.
    - D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at option of ENGINEER).
  5. INSPECTION: Prior to backfilling around thrust block, secure inspection of installation by ENGINEER.
  6. BACKFILL: Provide and place per APWA Section 33 05 20. Compact per APWA Section 31 23 26 to a modified proctor density of 95 percent or greater. Maximum lift thickness is 8 inches before compaction.



LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		VALVE BOX WITH LID	2 PIECE CAST IRON
(B)		CORPORATION STOP	BRASS
(C)		COPPER ADAPTER	
(D)		FLARE OR PACK JOINT COPPER ADAPTER	
(E)		SERVICE SADDLE CLAMP	D.I., A.C., C.I.
(F)		SERVICE SADDLE CLAMP	PVC
(G)		COPPER PIPE (SERVICE LINE)	TYPE K (SOFT)

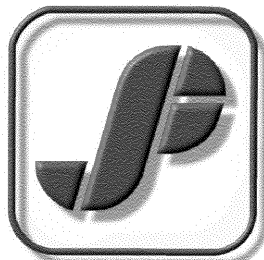
\* FURNISHED BY UTILITY AGENCY

**1 1/2" and 2" service taps**

Plan No.  
**552**

**FOR CONSTRUCTION**

ARCHITECT'S INFORMATION:



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ARCHITECT &  
ASSOCIATES P.C.**

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CONSULTANTS:



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**READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON**  
DRAPER, UTAH

REVISIONS: **A**

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OWNER PROJECT #: 09223080  
SPE PROJECT #: 08-01  
DRAWN BY: NOLTE  
CHECKED BY: NOLTE  
DESIGNED BY: NOLTE

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SHEET TITLE:

**APWA DETAILS  
VARIOUS**

SHEET NUMBER:

**CE-105**



GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code International Building Code 2006
2. Seismic Loads
- a. Short Period Mapped Spectral Acceleration  $S_S = 1.276$
- b. One second Mapped Spectral Acceleration  $S_1 = 0.536$
- c. Soil Site Class D
- d. Short Period Site Coefficient  $F_a = 1.0$
- e. One second Period Site Coefficient  $F_v = 1.5$
- f. 5% Damped Design Spectral Response Acceleration  $S_{DS} = 2/3 * F_a * S_S = 0.851$
- g. 5% Damped One Second Spectral Response Acceleration  $S_1 = 2/3 * F_v * S_1 = 0.536$
- h. Seismic Importance Factor  $I_b = 1.00$
- i. Response Modification Coefficient  $R = 3.5$
- j. Seismic Response Coefficient  $C_s = S_{DS} * I_b / R$
- k. W Dead Loads of Structure
- l. Building Seismic Design Category D
- m. System Overstrength Factor 3.0
- n. Deflection Amplification Factor 3.0
- o. Base Shear  $V = C_S * W = 0.243 W$  (Strength Design)
- p. Allowable Seismic Story Drift  $\Delta_a = 0.015 * h_s$
- q.  $h_s$  is the mean height of the structure in inches
3. Wind Loads
- a. Wind Velocity (3 Second Gust) 90 mph
- b. Exposure Type C
- c. Wind Importance Factor 1.00

FOUNDATION

1. Soils Investigation Report: None
2. Soil bearing pressure: 1500 psf – Assumed. Contractor shall verify at time of construction.
3. Frost Protection: 30 inches minimum.
4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in these drawings.

EARTHWORK

1. Prior to construction, the contractor shall verify that the soil conditions are adequate for 1,500 psf allowable soil bearing pressure. If needed, structural fill shall be provided beneath footings.
2. Clearing: Remove all existing structures and associated foundations, slabs, fencing, asphalt, concrete, and incidental structures as necessary for project completion. The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
3. Proof roll the entire building pad area with normal compaction equipment to check for the presence of unsuitable fills, soft spots, or other undesirable materials or conditions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill or 2,000 psi lean concrete.
4. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3 inches and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and 90 percent for fill beneath floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8 inches in uncompacted thickness.
5. Floor slabs thicknesses shall be required by the plans and underlain by a granular layer at least 4 inches thick. The granular layer shall have a maximum size less than 1 inch with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.
6. Consult the project specifications for further earthwork requirements.

CONCRETE

1. Materials, unless noted otherwise:
- a. Normal weight aggregates ASTM C 33
- b. Reinforcing Steel ASTM 615 Grade 60 (Fy = 60 ksi)  
Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.  
ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
- c. Anchor Rods
- d. Admixtures:
- i. Air-entraining admixtures comply with ASTM C 260 (when used).
- ii. Calcium chloride shall not be added to the concrete mix.
- e. Type I/II cement complying with ASTM C-150 shall be used for all concrete.
- f. The water/cement ratios shall meet the requirements of ACI 318.
- g. Provide air entraining as recommended by ACI 318.
- h. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
- a. Footings .....3,000 psi
- b. Interior Slabs on Grade .....4,000 psi
- c. Walls .....4,000 psi
- d. All Site Concrete .....4,000 psi
3. Only one grade or type of concrete shall be poured on the site at any given time.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
- a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
5. Reinforcement shall have the following concrete cover:
- Cast-in-place Concrete.....Clear Cover
- a. Cast against and permanently exposed to earth .....3"
- b. Formed concrete exposed to earth or weather:
- #6 thru #18 bars .....2"
- #5 and smaller bars .....1-1/2"
- c. Concrete not exposed to weather or in contact with ground:
- Slabs, Walls, Joists: #11 bars and smaller .....3/4"
- Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals .....1-1/2"
6. Construction Joints, Control Joints and Contraction Joints:
- a. Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
- b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1:25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
- i. Saw cut a depth of 1/4 the thickness of the slab
- ii. Tooled joints a depth of 1/4 the thickness of the slab
- c. Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
7. Construction
- a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
- b. Concrete to be mechanically consolidated during placement per ACI standards.
- c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
- d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
- e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
- f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
8. Detailing:
- a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" on sheet SB601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements. Use "Cadmold", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
- b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
- c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
- d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
- e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
- f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.

EPOXY

1. For concrete, the epoxy shall be HIT RE 500-SD by Hilti Corporation, Epcon G5 by ITW Redhead, Powers PE 1000 + by Powers Fasteners Inc. or SET-XP by Simpson Strong Tie. Epcon G5 shall not be used in crack concrete or for seismic applications.
2. For grouted masonry, the epoxy shall be HIT HY 150 MAX by Hilti Corporation, Powers Fast+ Epoxy by Powers Fasteners Inc, SET by Simpson Strong, or CIA GEL by USP.
3. For ungrouted masonry, the epoxy shall be HIT-HY 20 by Hilti Corporation, Standard Set Powers Fast + by Powers Fasteners Inc. or "SET" by Simpson Strong Tie Inc. Stainless steel screen tubes shall be used.
4. Follow all of the manufacturer's recommendations for epoxy installation.

PREFABRICATED METAL BUILDING

1. The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
2. Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the State of Utah. Complete calculations shall be submitted with the shop drawings.
3. Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect and Engineer.
4. The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and lateral systems.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 thru 1709 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. Special Inspections shall meet the requirements of State of Utah DFCM standards including pre-approved listing of special inspectors and steel fabricators. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer, building official and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with out special inspection. Items requiring special inspection and quality assurance are found from the DFCM check list. (See GI-003)

SITE OBSERVATIONS BY STRUCTURAL ENGINEER

Site observations, as required by IBC section 1709, shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed below. The contractor shall notify the engineer when he has reached the construction stage listed below and before the work to be observed is covered up, walled in or becomes otherwise hidden from view or in-accessible to any necessary corrections. At the conclusion of the project, the structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that to the best of the structural observer's knowledge have not been resolved (See 1709.1).

1. Prior to footing pours

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

1. Prefabricated Metal Buildings

LEGEND OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT(S)	JT	JOINT
ABV	ABOVE	JST	JOIST
ALT	ALTERNATE		
APPROX	APPROXIMATE	K	KIP(S) = 1000 POUNDS
AROH	ARCHITECT(URAL)	KLF	KIPS PER LINEAL FOOT
		KSF	KIPS PER SQUARE FOOT
BLDG	BUILDING	LBS	POUNDS
BLW	BELOW	LF	LINEAL FOOT
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOT	BOTTOM	LLV	LONG LEG VERTICAL
BEG	BEARING	LSV	LONG SIDE VERTICAL
BETWN	BETWEEN		
CC	CENTER-TO-CENTER	MAS	MASONRY
C.J.	CONST. CONTROL JOINT	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL
COL	COLUMN	MFR	MANUFACTURER
CONC	CONCRETE	MIN	MINIMUM
CONST	CONSTRUCTION	MISC	MISCELLANEOUS
CP-x	CONCRETE PIER	MW-x	MASONRY WALL
CTR	CENTER		
CW-x	CONCRETE WALL	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
DB	DECK BEARING	O.C.	ON CENTER
DBA	DEFORMED BAR ANCHOR	O.F.	OUTSIDE FACE
DBE	DECK BEARING ELEVATION	OPNG	OPENING
DBL	DOUBLE	OPP	OPPOSITE
DET	DETAIL		
DIA	DIAMETER	POF	POUNDS PER CUBIC FOOT
DIM	DIMENSION	PL	PLATE
DN	DOWN	PLF	POUNDS PER LINEAL FOOT
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
DWL	DOWEL	PSI	POUNDS PER SQUARE INCH
		PT	POINT
EA	EACH	REIN	REINFORCING
E.F.	EACH FACE	REQD	REQUIRED
E.J.	EXPANSION JOINT	R.D.	ROOF DRAIN
ELEC	ELECTRICAL	RTU	ROOF TOP UNITS
ELEV	ELEVATION		
EQUIP	EQUIPMENT	SHT	SHEET
EQ	EQUAL	SI	SPECIAL INSPECTION
E.W.	EACH WAY	SIM	SIMILAR
EXST	EXISTING	SMU	SUSPENDED MECHANICAL UNIT'S
EXP	EXPANSION	SOG	SLAB-ON-GRADE
EXT	EXTERIOR	SQ	SQUARE
		STAG	STAGGERED
FC-x	CONTINUOUS FOOTING MARK	STD	STANDARD
F.D.	FLOOR DRAIN	STL	STEEL
FDN	FOUNDATION	STR	STRUCTURAL
F.F.	FINISHED FLOOR	STS	SELF TAPPING SCREWS
FR-x	RECTANGULAR FOOTING MARK		
FS-x	SQUARE FOOTING MARK	T&B	TOP AND BOTTOM
FT	FOOT	TEMP	TEMPERATURE
FTG	FOOTING	THDS	THREADS
FTS-x	THICKEN SLAB MARK	T.O.	TOP OF
		TOC	TOP OF CONCRETE
GA	GAUGE	TOD	TOP OF DECK
GALV	GALVANIZED	TOF	TOP OF FOOTING
GSN	GENERAL STRUCTURAL NOTES	TOW	TOP OF WALL
		TYP	TYICAL
		UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
IBCO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	WI	WITH
IBC	INTERNATIONAL BUILDING CODE	WT	WALL THICKNESS
I.F.	INSIDE FACE	WWF	WELDED WIRE FABRIC
IN.	INCH	WWW	WELDED WIRE MESH
INT	INTERIOR		

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NO. DATE DESCRIPTION

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#2 03/01/2014 100% FINAL REVIEW SET

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#4 07/07/2014 BID DOCUMENTS (REDESIGN)

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BHB PROJECT #: 09522

DRAWN BY: MK

CHECKED BY:

DESIGNED BY:

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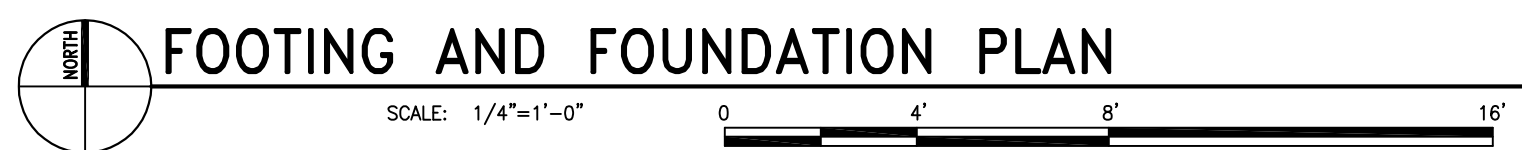
SHEET TITLE:

GENERAL  
STRUCTURAL  
NOTES

SHEET NUMBER:






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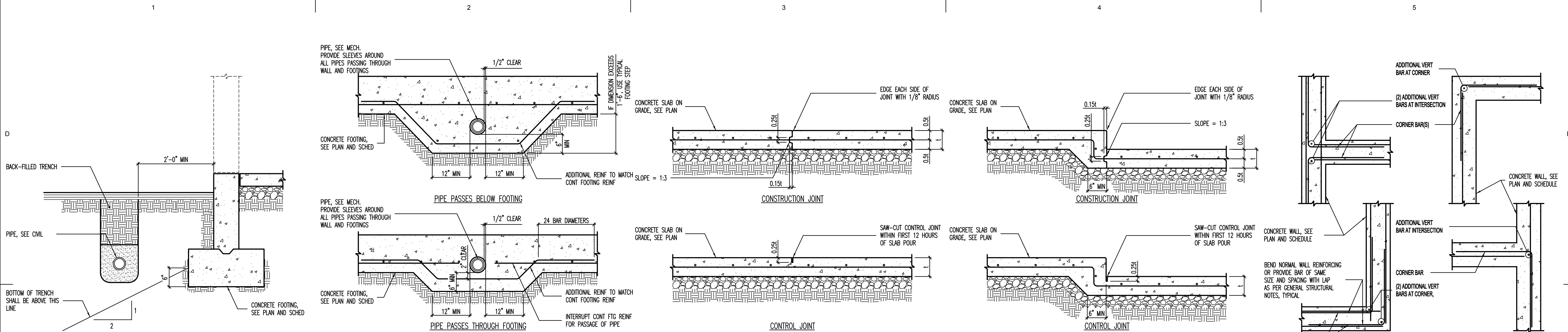


1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND MECH DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
4. SP DETAIL C1/SB501 AND C2/SB501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
5. SP DETAIL C1/SB501 AND C2/SB501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
6. SEE DETAIL B1/SB501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
7. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

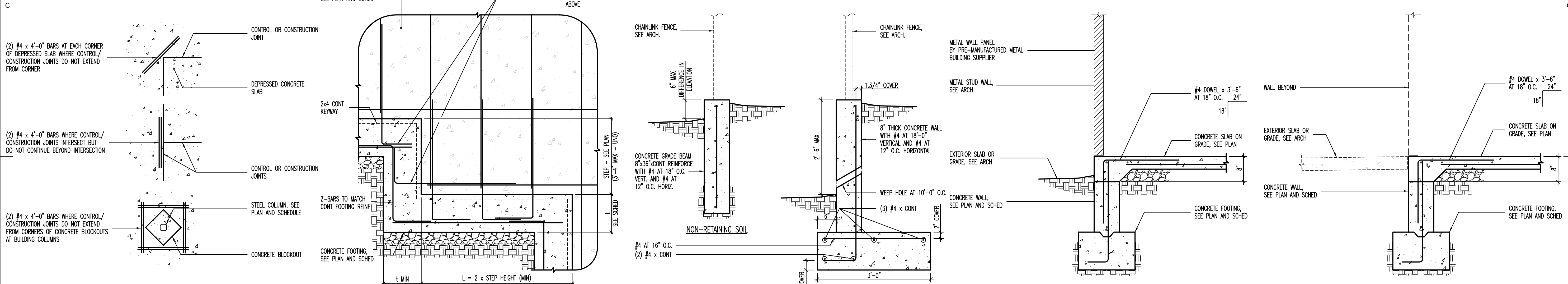
# MARKS AND SYMBOLS LEGEND

	SECTION MARK SHEET NUMBER
	FOOTING DESIGNATION TOP OF FOOTING ELEVATION
S—S	INDICATES FOOTING STEP, SEE DETAIL B2/SB501
	INDICATES CONCRETE WALL
	DEPRESS FOUNDATION WALL AND POUR SLAB OVER, SEE DETAIL B4/SB501
	INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET SB601.
FCxx	INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET SB601.
FSxx	INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET SB601.
CP—x	INDICATES CONCRETE PIER TYPE, SEE SCHEDULE ON SHEET SB601.
C.J.	INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS C3/SB501 AND C4/SB501.





**C1** CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING NO SCALE  
**C2** CONDITIONS AT PIPE PERPENDICULAR TO FOOTING NO SCALE  
**C3** TYPICAL SLAB ON GRADE JOINT DETAILS NO SCALE  
**C4** JOINT DETAILS AT SLAB DEPRESSIONS NO SCALE  
**C5** TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW] NO SCALE



**B1** LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW] NO SCALE  
**B2** TYPICAL FOOTING STEP DETAIL NO SCALE  
**B3** CURB WALL DETAIL NO SCALE  
**B4** FOUNDATION WALL DETAIL NO SCALE  
**B5** TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW] NO SCALE



**A1** STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING NO SCALE

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SHEET TITLE:

**FOOTING AND  
FOUNDATION  
DETAILS**

SHEET NUMBER:

**SB501**



C

SCHED\_DONG\_F77-C2000-5150

B

SCHED\_CONC\_BALL-01

**CONCRETE PIER NOTES:**

1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR TO VERIFY SCHEDULED SIZE OF CONCRETE PIER IS LARGE ENOUGH FOR STEEL BASE PLATE.



## SCHED\_CONC\_PIER-01

**CONCRETE REINFORCING BAR LAP SPACING NOTES:**

1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPACES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPACES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPACED WITHIN THE LAP SPACE LENGTH.
3. CLASS 'B' SPACES SHALL BE USED FOR ALL SPACES UNLESS THE REQUIREMENTS OF NOTE NO. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPACED.
5. SPACES FOR BUNDLED BARS:
  - a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPACE LENGTH SHALL BE MULTIPLIED BY 1.2.
  - b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPACE LENGTH SHALL BE MULTIPLIED BY 1.33.
  - c. INDIVIDUAL BAR SPACES WITHIN A BUNDLE SHALL NOT OVERLAP.
6. ENTIRE BUNDLES SHALL NOT BE LAP SPACED.
7. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
8. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
9. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12" OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

BOHEO CONC. REF-01



NO SCALE

**C4** **E**  
SCHED\_CONC\_FPORT-0

## SCHED\_CONC\_EPORT-0



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DRAWN BY:	MK

DRAWN BY:	MIR
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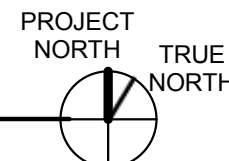
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## STRUCTURAL SCHEDULES

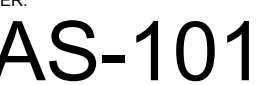
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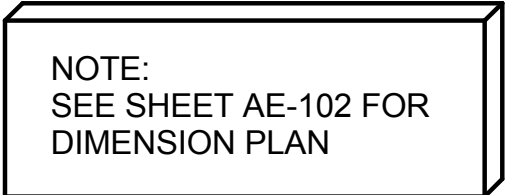




8	NEW ELECTRICAL DISCONNECT - SEE ELECTRICAL DRAWINGS
9	EXISTING TURNSTYLE TYPE GATE TO REMAIN.
10	EXISTING FIRE HYDRANT.
11	SEE ROOF PLAN - SHEET AE-104.
12	TEMPORARY FENCING - SEE SPEC. SECTION 015000. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER - PATCH AND REPAIR ALL EXISTING IMPROVEMENTS AFFECTED BY THIS WORK.
13	(E) SEWER MANHOLE - SEE CIVIL DRAWINGS.
14	(E) EDGE OF GRASS / DIRT.







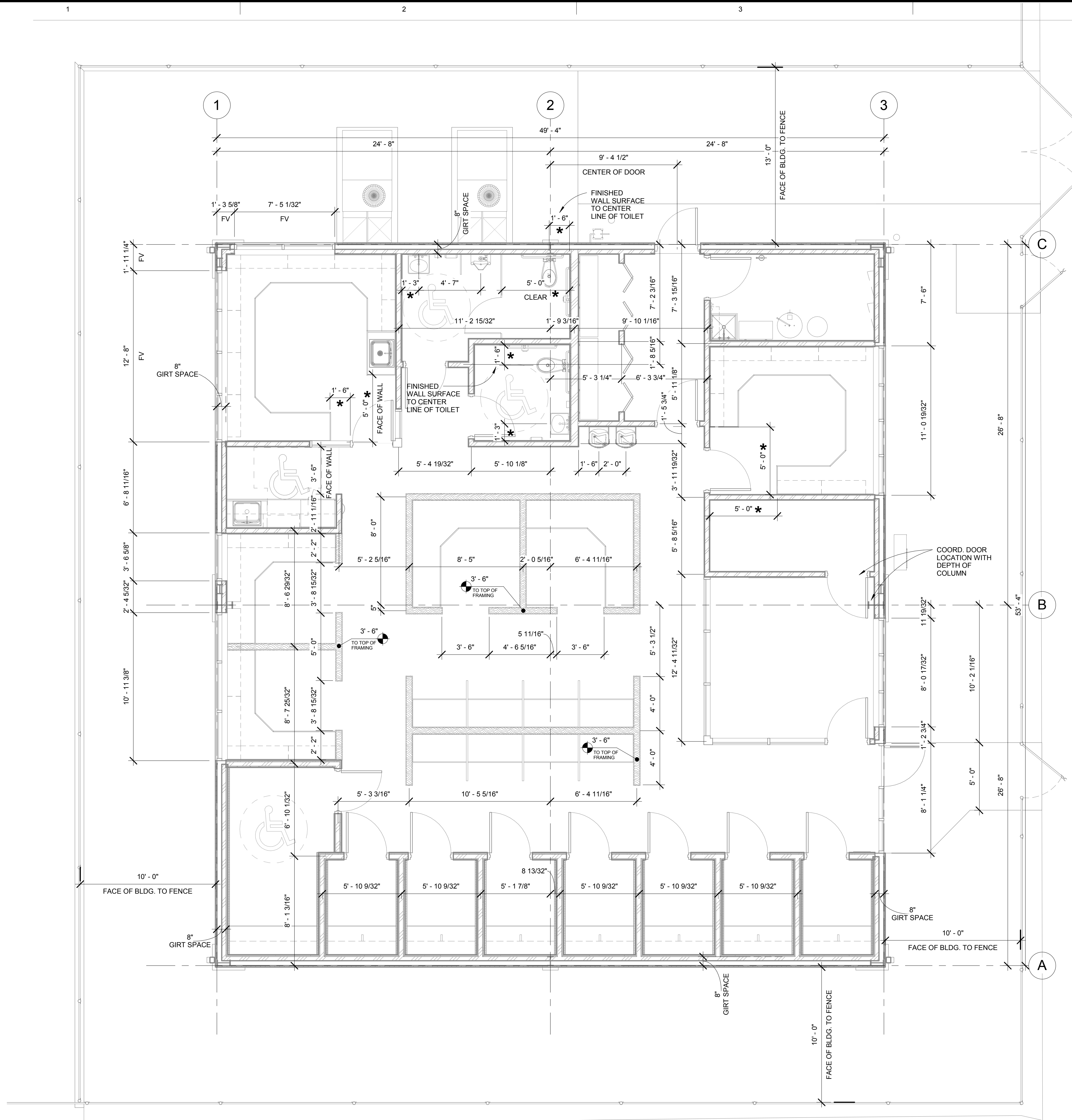
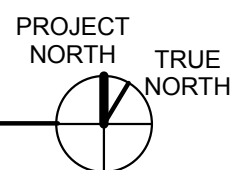
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Last Printed: 7/6/2010 11:05:52 AM

# A1 DIMENSION PLAN

1/4" = 1'-0"



NOTE:  
UNLESS NOTED OTHERWISE, DIMENSIONS ARE  
TYPICALLY FROM GRID LINES, CENTER OF "FINISHED  
WALL ASSEMBLY" AND EXTERIOR FACE OF BUILDING. -  
WHERE DIMENSIONED TO CENTER OF "FINISHED WALL  
ASSEMBLY", COORDINATE WITH WALL TYPES  
SCHEDULE

DIMENSIONS WITH AN ASTRICK \* ARE IMPORTANT  
DIMENSIONS THAT MUST BE MAINTAINED.

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT  
THE ARCHITECT FOR ANY CLARIFICATION OR  
QUESTIONS REGARDING DIMENSIONING PRIOR TO  
BEGINNING CONSTRUCTION RELATIVE TO THE  
DIMENSION IN QUESTION.



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DIMENSION PLAN

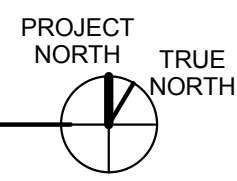
SHEET NUMBER:

AE-102



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**A1 REFLECTED CEILING PLAN**  
1/4" = 1'-0"



SEE BUILDING / WALL SECTIONS FOR  
SOUND RATED CEILING  
CONFIGURATION - TYPICAL AT ALL  
READING ROOMS (ROOMS 110 - 117)

SEE SHEET AE-501 FOR GENERAL  
CEILING DETAILS / INFORMATION

## KEYED NOTES

- 1 OPEN TO STRUCTURE ABOVE - NO CEILING.
- 2 PREFINISHED SHEET METAL SOFFIT BY METAL BUILDING MANUFACTURER.
- 3 GYP. BD. / METAL STUD HEADER. - PAINT. - BRACE TO STRUCTURE AT 48" O.C. MIN.
- 4 GYP. BD. / METAL STUD FRAMING AT WINDOW / DOOR - PAINT.
- 5 FUTURE SECURITY CAMERA - N.I.C..
- 6 RAIN GUTTER AND DOWNSPOUTS - SEE SPEC.

## REFLECTED CEILING LEGEND

- 2'-0" x 4'-0" ACOUSTICAL PANEL CEILING AND METAL GRID SYSTEM - SEE SPEC. REFER TO DETAILS ON SHEET AE-501 FOR TYPICAL DETAILS
- 12"x12" GLUE-UP ACOUSTICAL TILE ON SUSPENDED OR FRAMED GYP. BD. CEILING SYSTEM - SEE WALL SECTIONS FOR SOUND RATED CEILING ASSEMBLY IN READING ROOMS #110 - #117
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- SUSPENDED INDIRECT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 2x4 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 1x4 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED INDIRECT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- GYPSUM BOARD ATTACHED TO UNDERSIDE OF SUSPENDED OR FRAMED SUPPORT SYSTEM - SEE FINISH SCHEDULE
- EXPOSED STRUCTURE ABOVE - NO FINISH
- RETURN AIR DIFFUSER - SEE MECHANICAL DRAWINGS.
- SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS.
- EXHAUST GRILLE - SEE MECHANICAL DRAWINGS.



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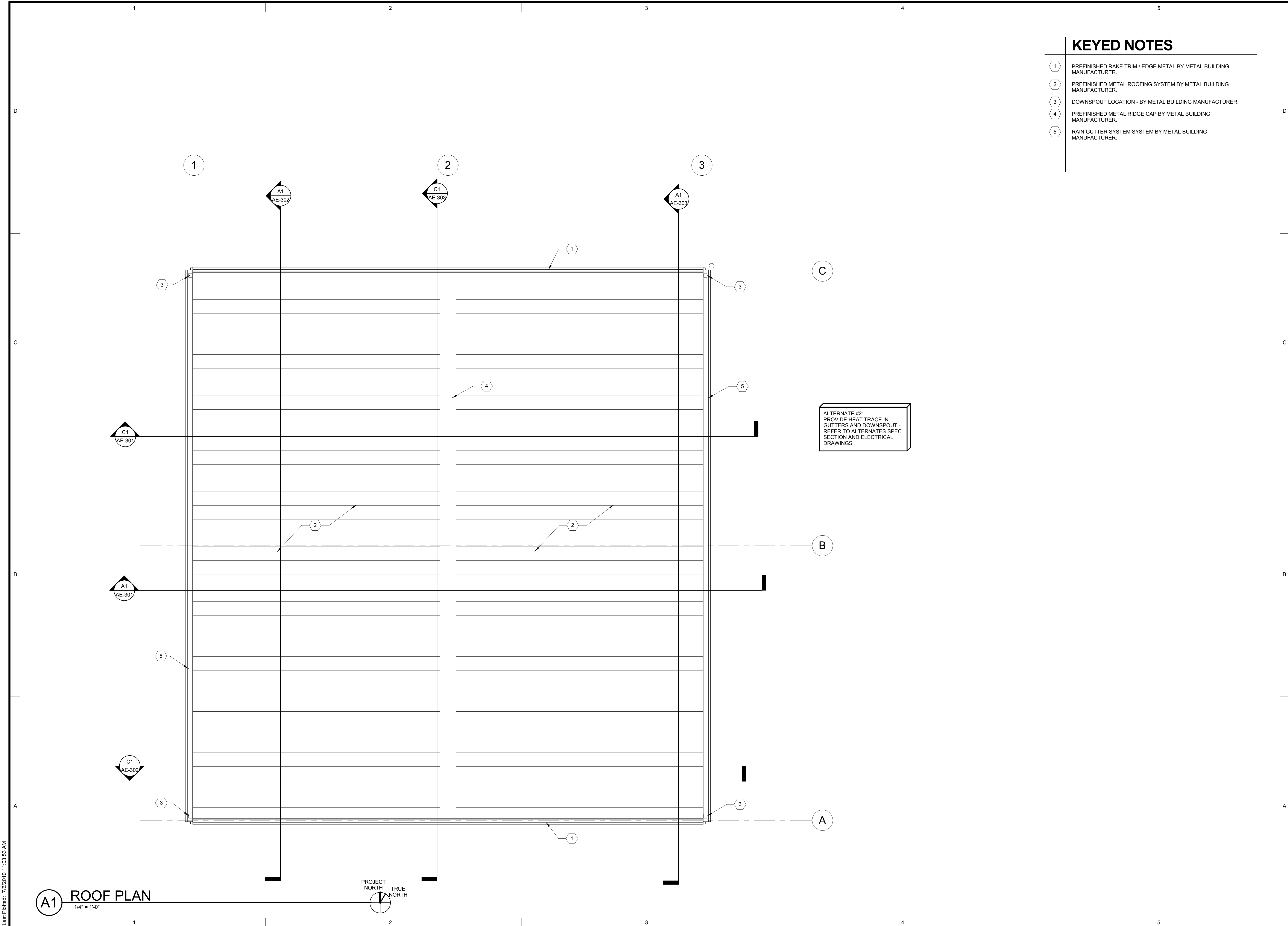
**REFLECTED  
CEILING PLAN**

SHEET NUMBER:

**AE-103**



Last Printed: 7/6/2010 11:03:53 AM



## KEYED NOTES

- 1 PREFINISHED RAKE TRIM / EDGE METAL BY METAL BUILDING MANUFACTURER.
- 2 PREFINISHED METAL ROOFING SYSTEM BY METAL BUILDING MANUFACTURER.
- 3 DOWNSPOUT LOCATION - BY METAL BUILDING MANUFACTURER.
- 4 PREFINISHED METAL RIDGE CAP BY METAL BUILDING MANUFACTURER.
- 5 RAIN GUTTER SYSTEM SYSTEM BY METAL BUILDING MANUFACTURER.



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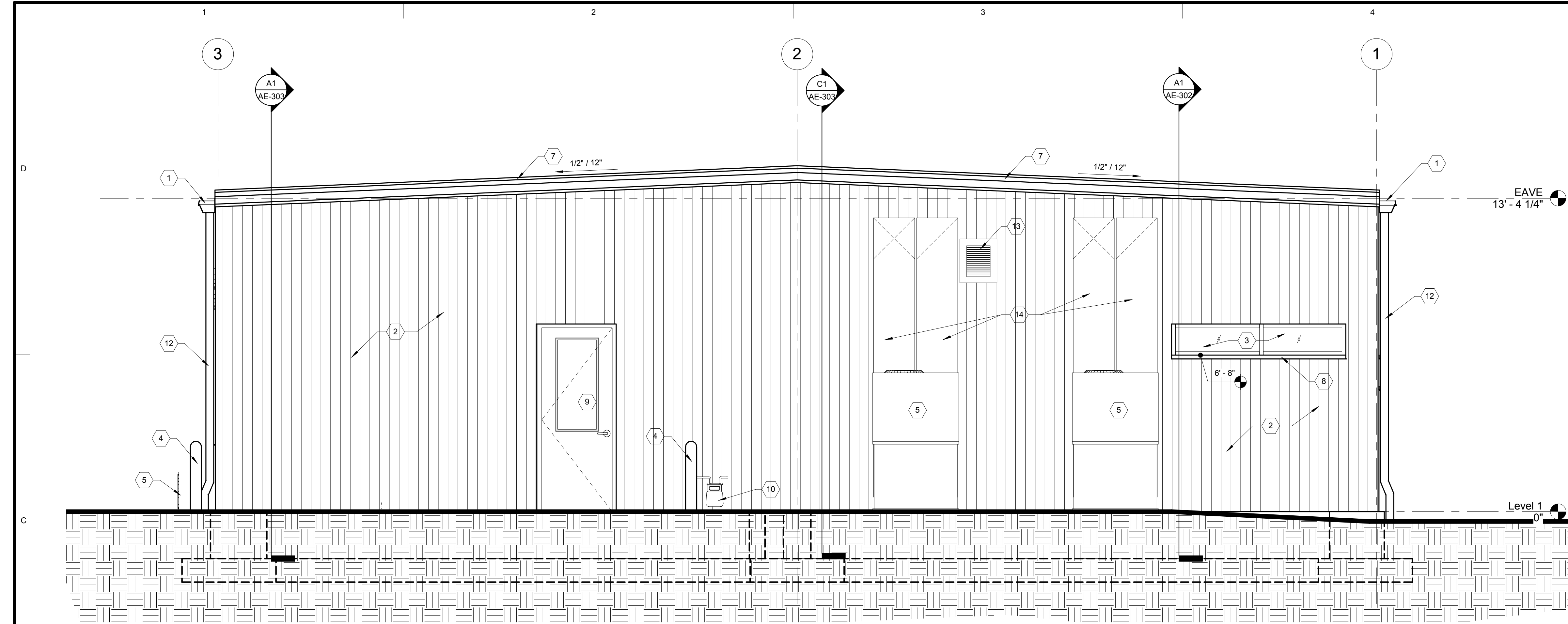
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ROOF PLAN

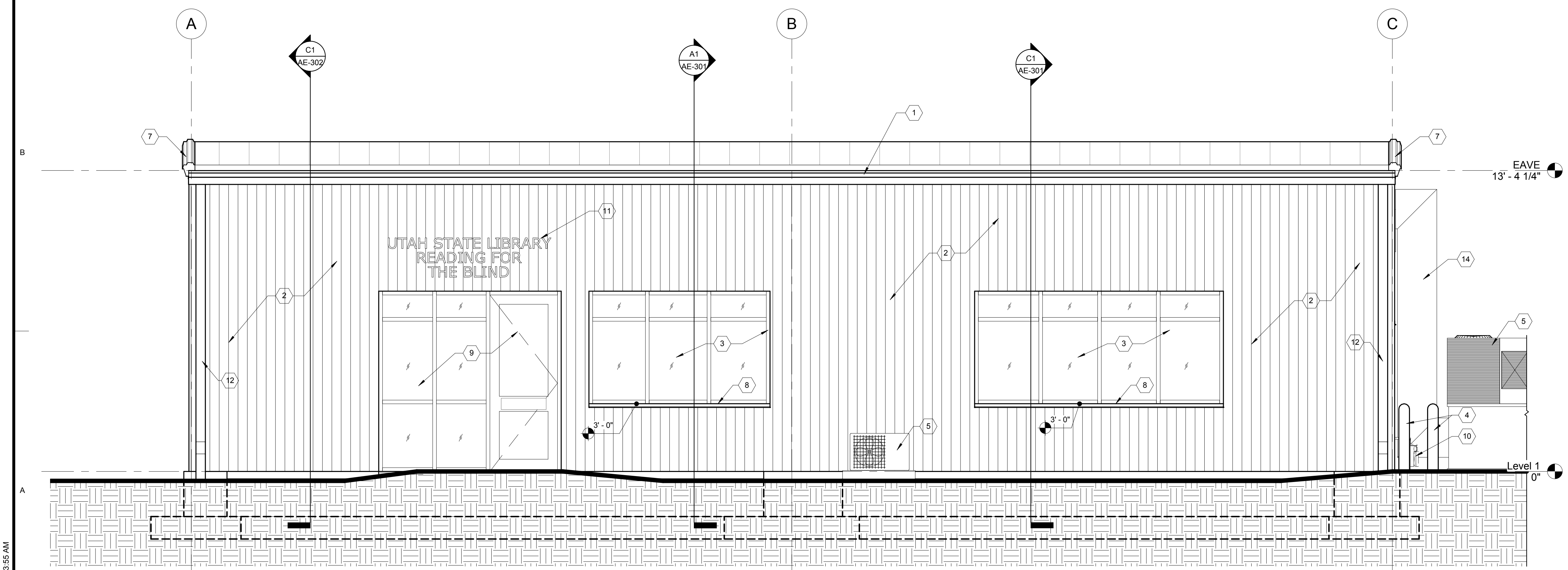
SHEET NUMBER:

AE-104





**C1 NORTH ELEVATION**  
3/8" = 1'-0"



**A1 EAST ELEVATION**  
3/8" = 1'-0"

**KEYED NOTES**

(REFERENCE SHEETS  
AE-201 & AE-202)

- 1 PREFINISHED RAIN GUTTER SYSTEM BY METAL BUILDING MANUFACTURER - SEE SPEC.
- 2 PREFINISHED METAL WALL PANEL BY STEEL BUILDING MANUFACTURER - SEE SPEC.
- 3 WINDOW SYSTEM - SEE WINDOW SCHEDULE AND SPEC.
- 4 PAINED STEEL PIPE BOLLARD - SEE SPEC AND DETAIL C4/AE-503.
- 5 HVAC UNIT - SEE MECHANICAL DRAWINGS.
- 6 ----NOT USED----
- 7 PREFINISHED RAKE TRIM / EDGE METAL BY BUILDING MANUFACTURER.
- 8 PREFINISHED 24 GA. STEEL WINDOW SILL - SEE SPEC.
- 9 DOOR - SEE DOOR SCHEDULE AND SPEC.
- 10 GAS METER - SEE MECHANICAL DRAWINGS.
- 11 6" BRONZE ANODIZED ALUMINUM LETTERS ON CONTINUOUS RAIL MOUNTED TO METAL WALL PANEL. - SEE SPEC.
- 12 PREFINISHED METAL DOWNSPOUT BY METAL BUILDING MANUFACTURER.
- 13 MECHANICAL LOUVER - SEE MECHANICAL DRAWINGS.
- 14 EXPOSED DUCTWORK (PAINT) - SEE MECHANICAL DRAWINGS - FLASH AND COUNTER FLASH PENETRATION INTO BUILDING AS REQUIRED FOR A WATERTIGHT & FINISHED APPEARANCE.

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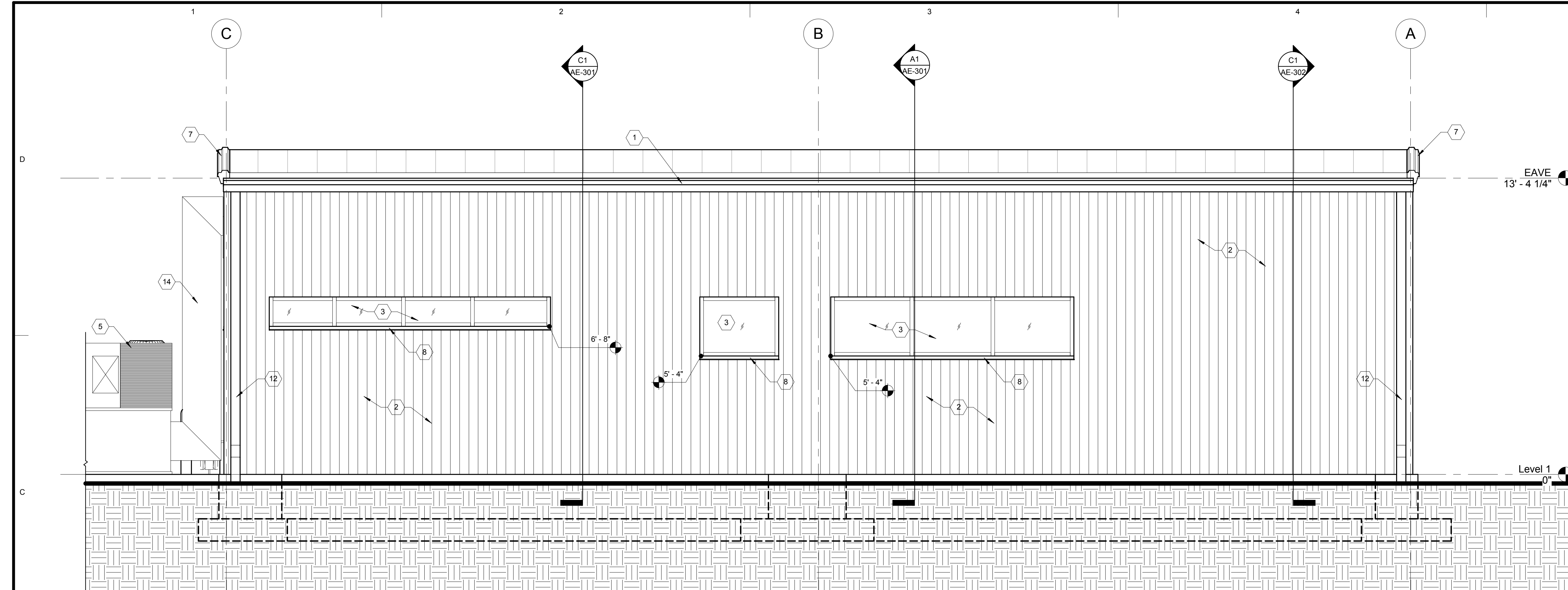
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**EXTERIOR  
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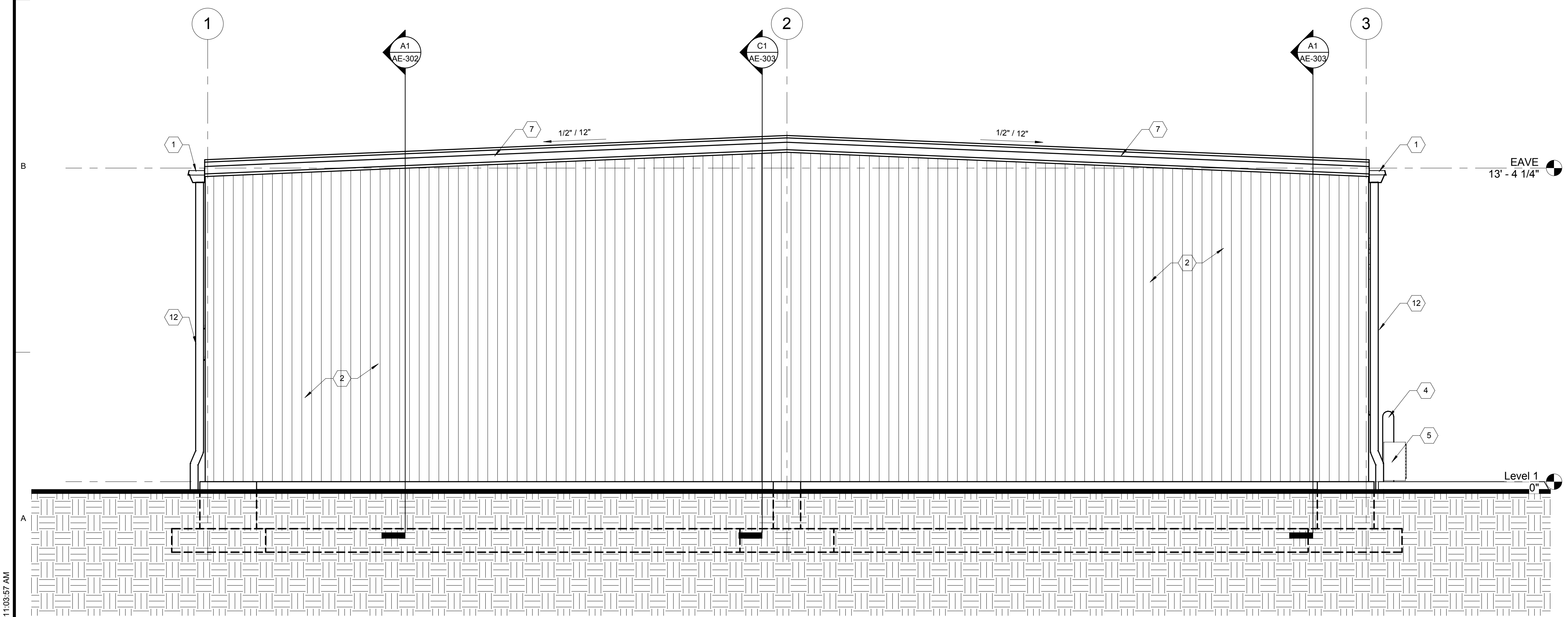
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**AE-201**





C1 WEST ELEVATION  
3/8" = 1'-0"



A1 SOUTH ELEVATION  
3/8" = 1'-0"

KEYED NOTES (REFERENCE SHEETS AE-201 & AE-202)

- 1 PREFINISHED RAIN GUTTER SYSTEM BY METAL BUILDING MANUFACTURER - SEE SPEC.
- 2 PREFINISHED METAL WALL PANEL BY STEEL BUILDING MANUFACTURER - SEE SPEC.
- 3 WINDOW SYSTEM - SEE WINDOW SCHEDULE AND SPEC.
- 4 PAINED STEEL PIPE BOLLARD - SEE SPEC AND DETAIL C4/AE-503.
- 5 HVAC UNIT - SEE MECHANICAL DRAWINGS.
- 6 -----NOT USED-----
- 7 PREFINISHED RAKE TRIM / EDGE METAL BY BUILDING MANUFACTURER.
- 8 PREFINISHED 24 GA. STEEL WINDOW SILL - SEE SPEC.
- 9 DOOR - SEE DOOR SCHEDULE AND SPEC.
- 10 GAS METER - SEE MECHANICAL DRAWINGS.
- 11 6" BRONZE ANODIZED ALUMINUM LETTERS ON CONTINUOUS RAIL MOUNTED TO METAL WALL PANEL - SEE SPEC.
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- 13 MECHANICAL LOUVER - SEE MECHANICAL DRAWINGS.
- 14 EXPOSED DUCTWORK (PAINT) - SEE MECHANICAL DRAWINGS - FLASH AND COUNTER FLASH PENETRATION INTO BUILDING AS REQUIRED FOR A WATERTIGHT & FINISHED APPEARANCE.

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NOLTE  
DESIGN ENGINEERS

  
BHB

  
SPECTRUM  
ENGINEERS

  
SMD  
ENGINEERING, PLLC

PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON

REVISIONS: 2

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
#1	01/12/2010	DESIGN DEVELOPEMENT SUBMITTAL
#2	03/01/2010	100% FINAL REVIEW SET
#3	04/04/2010	BID DOCUMENTS
#4	07/07/2010	BID DOCUMENTS (REDESIGN)

OWNER PROJECT #: 09223080  
SPE PROJECT #: 09-12  
DRAWN BY: GTE  
CHECKED BY: SPE  
DESIGNED BY: SPE

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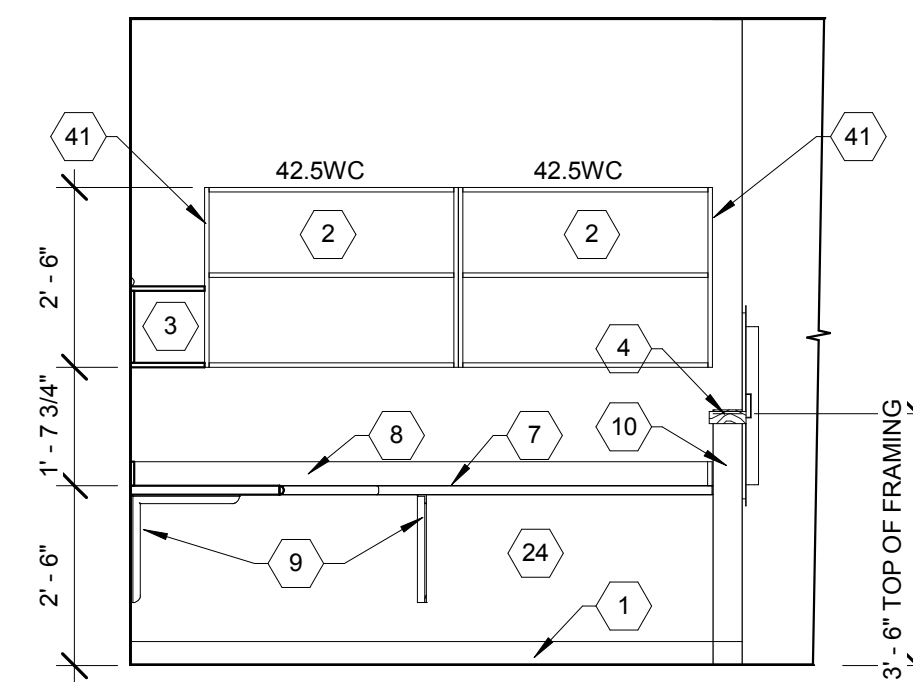
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EXTERIOR  
ELEVATIONS

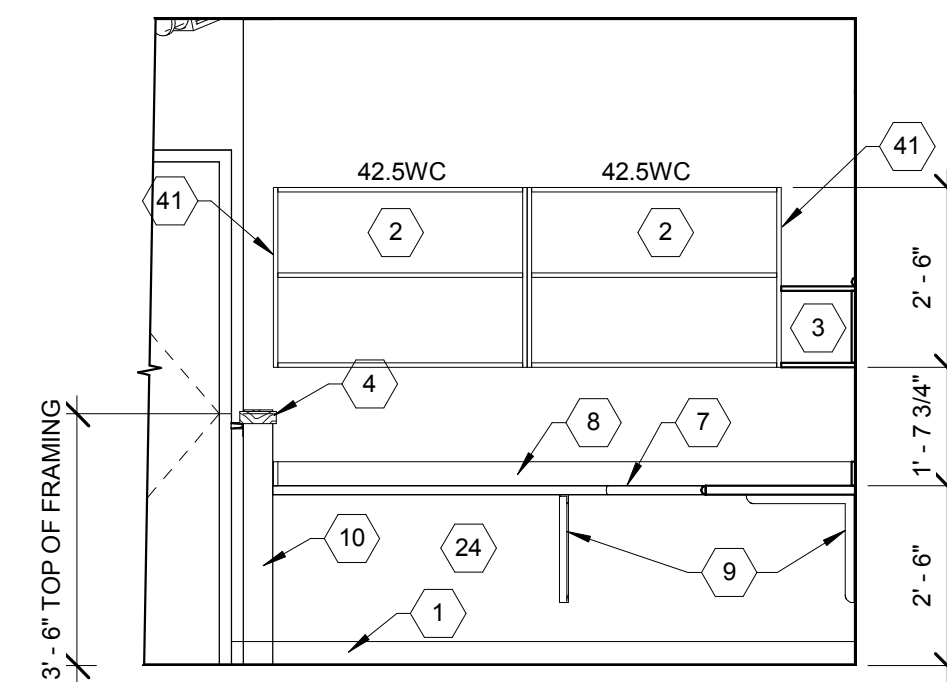
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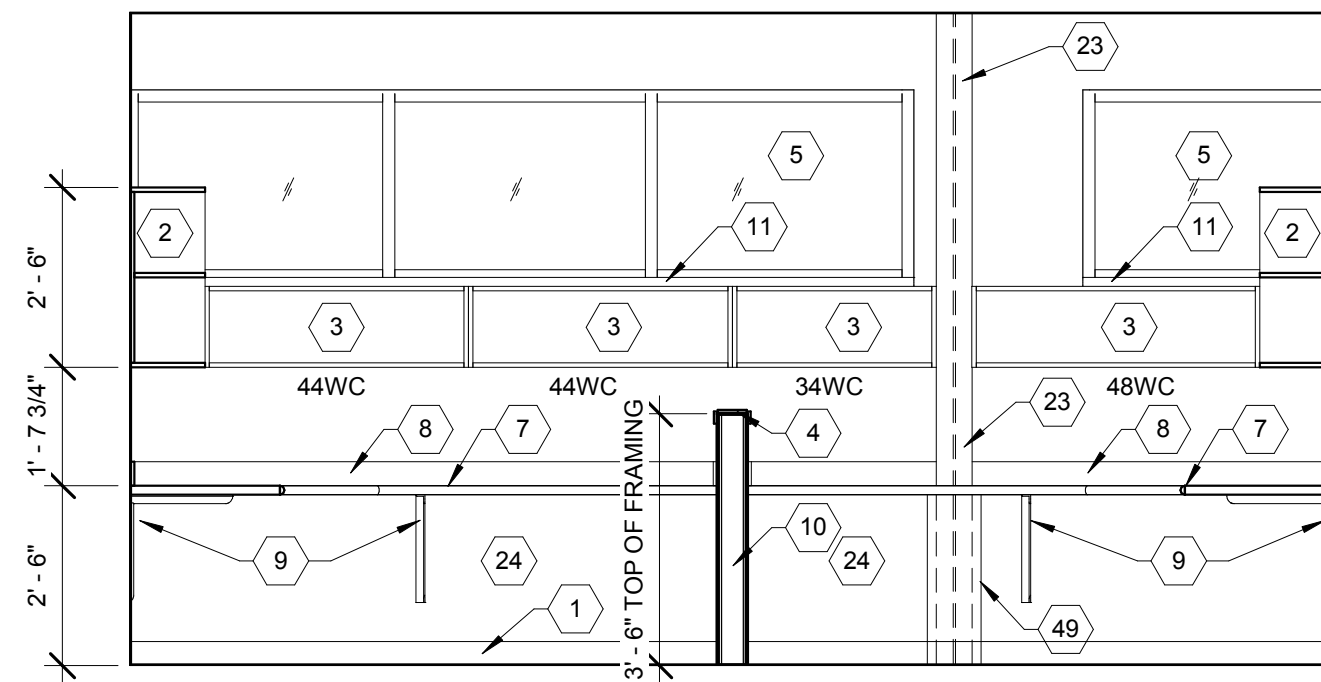




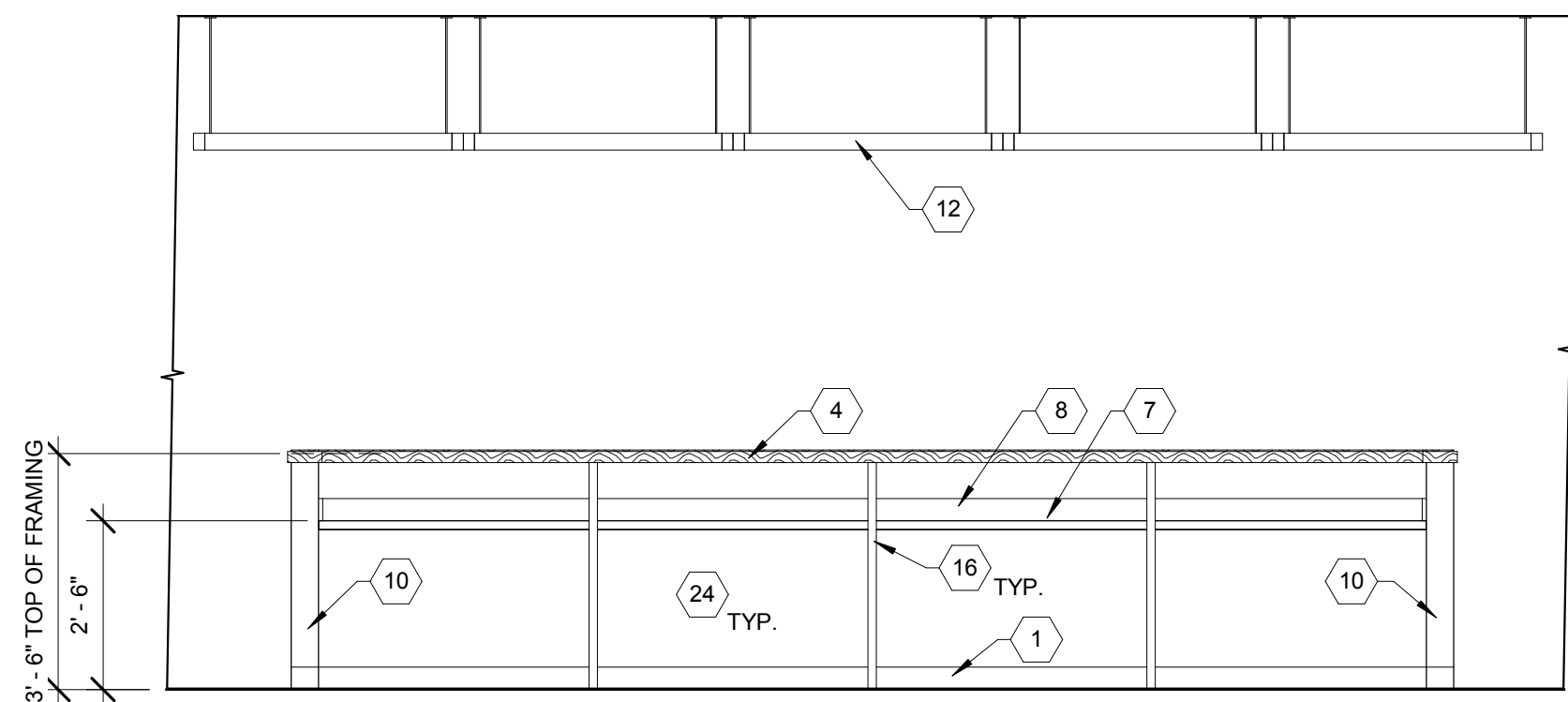
**D1 QUALITY CONTROL AREA - NORTH**  
3/8" = 1'-0"



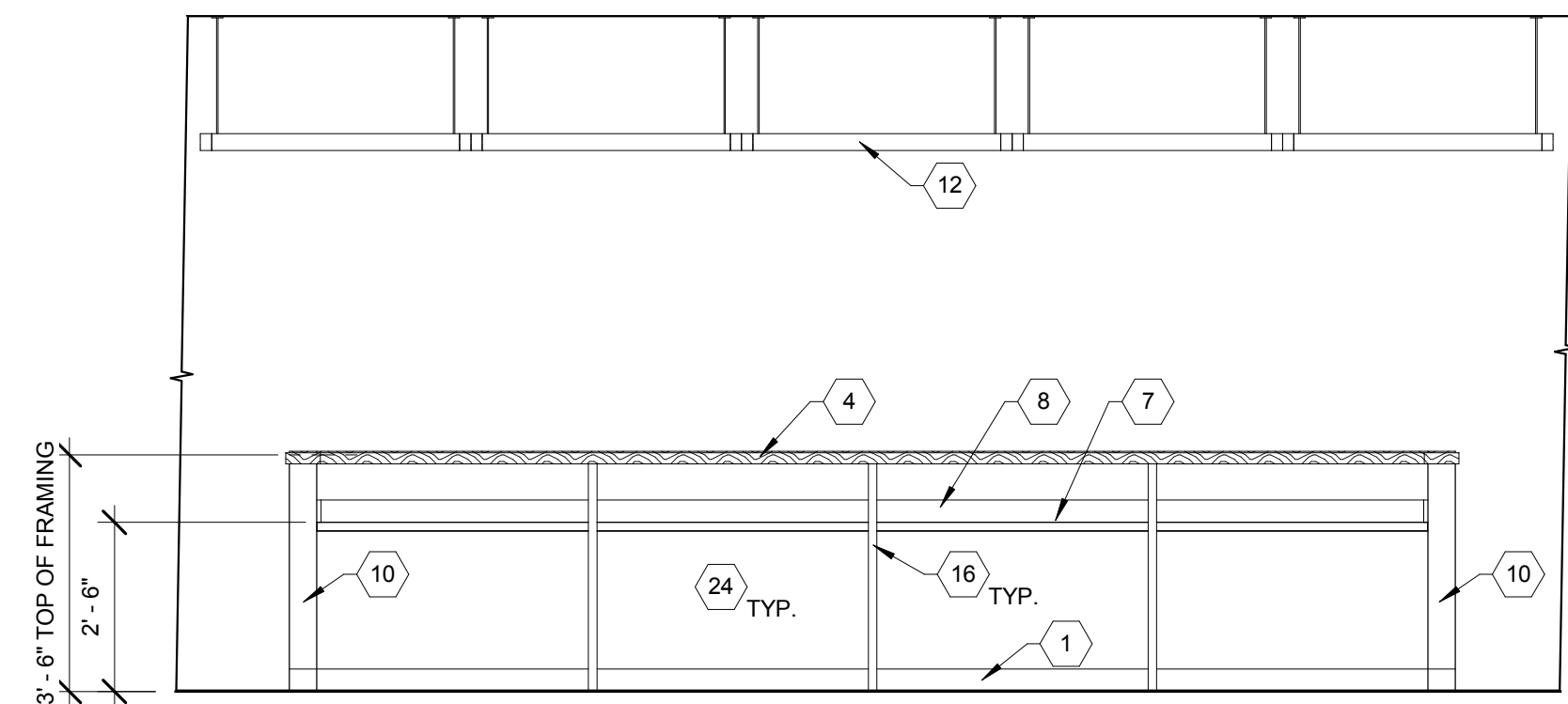
**D2 QUALITY CONTROL AREA - SOUTH**  
3/8" = 1'-0"



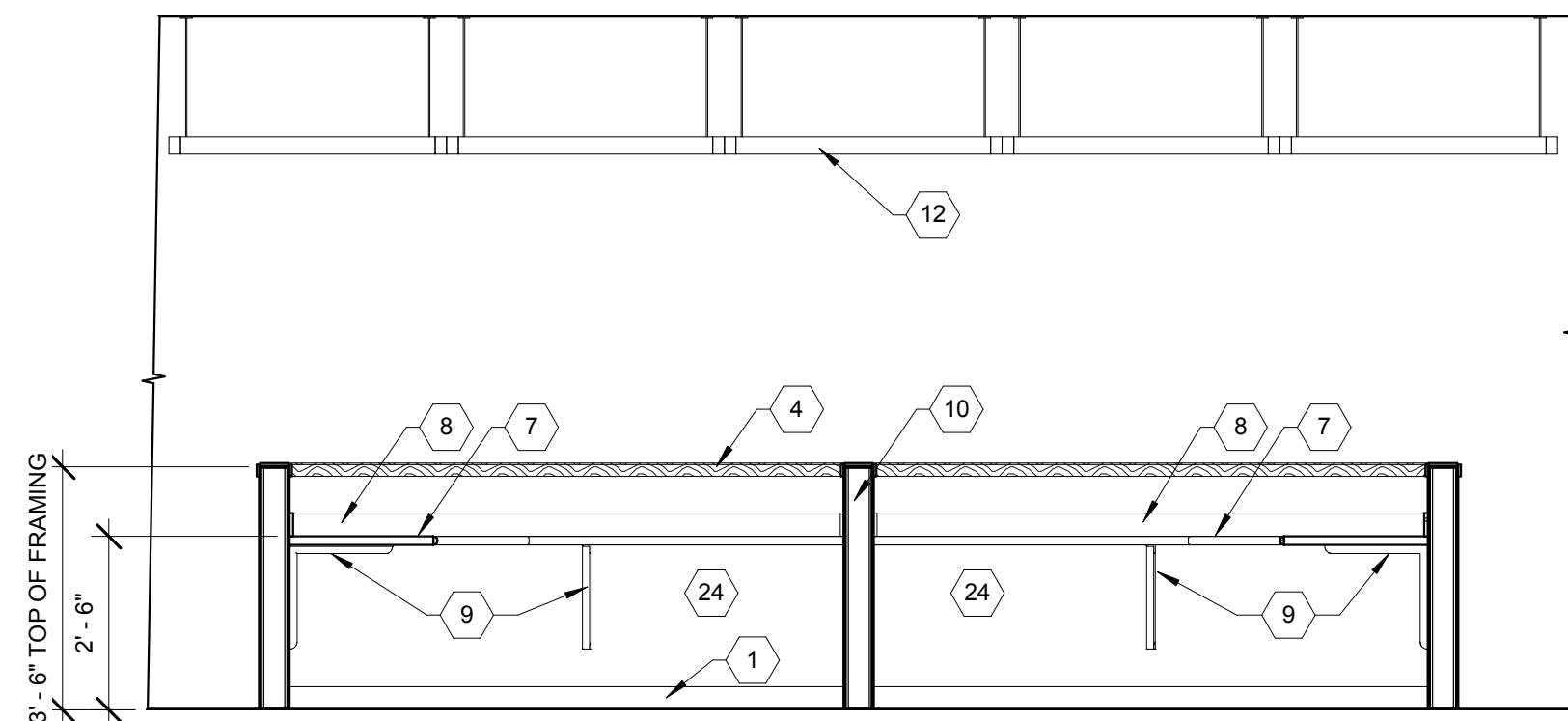
**D3 QUALITY CONTROL AREA - WEST**  
3/8" = 1'-0"



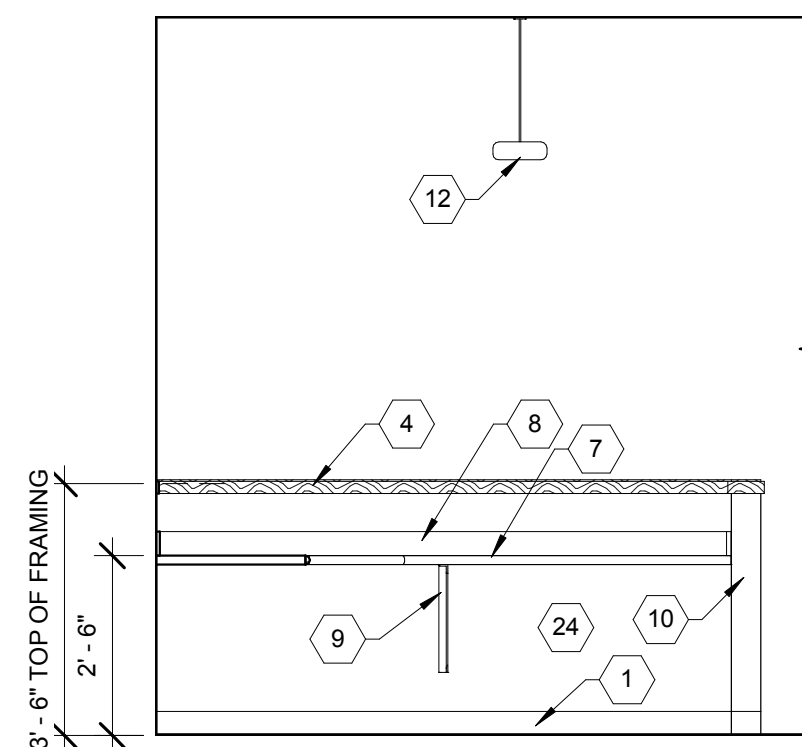
**C1 EDITING AREA - SOUTH**  
3/8" = 1'-0"



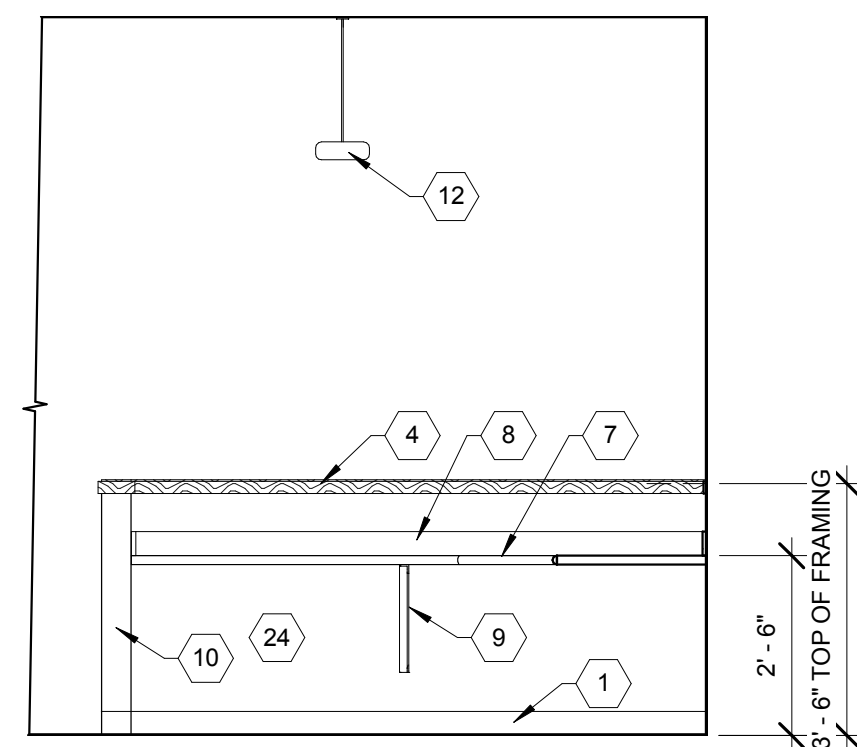
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3/8" = 1'-0"



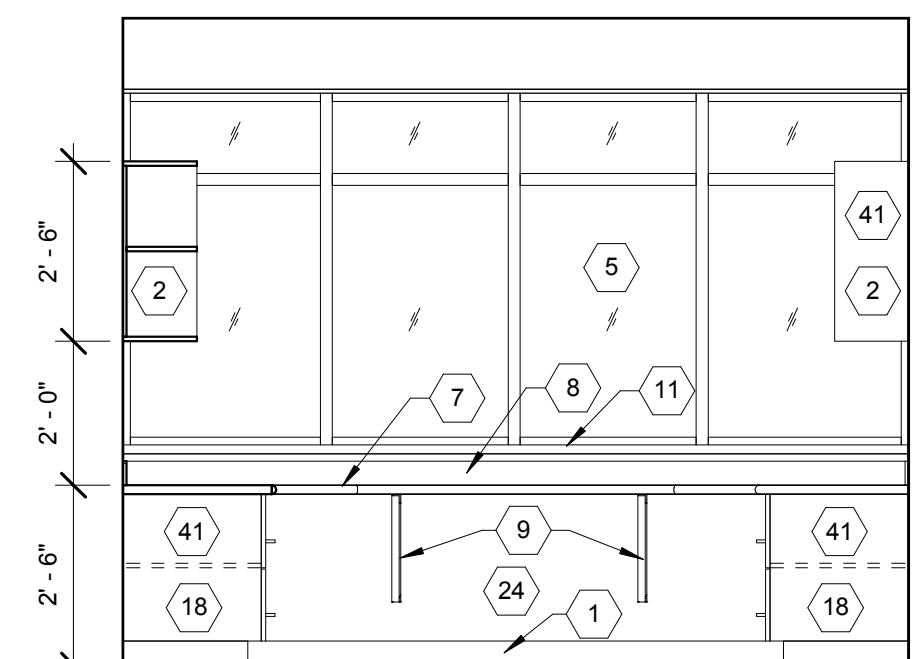
**B1 DUPLICATION AREA - NORTH**  
3/8" = 1'-0"



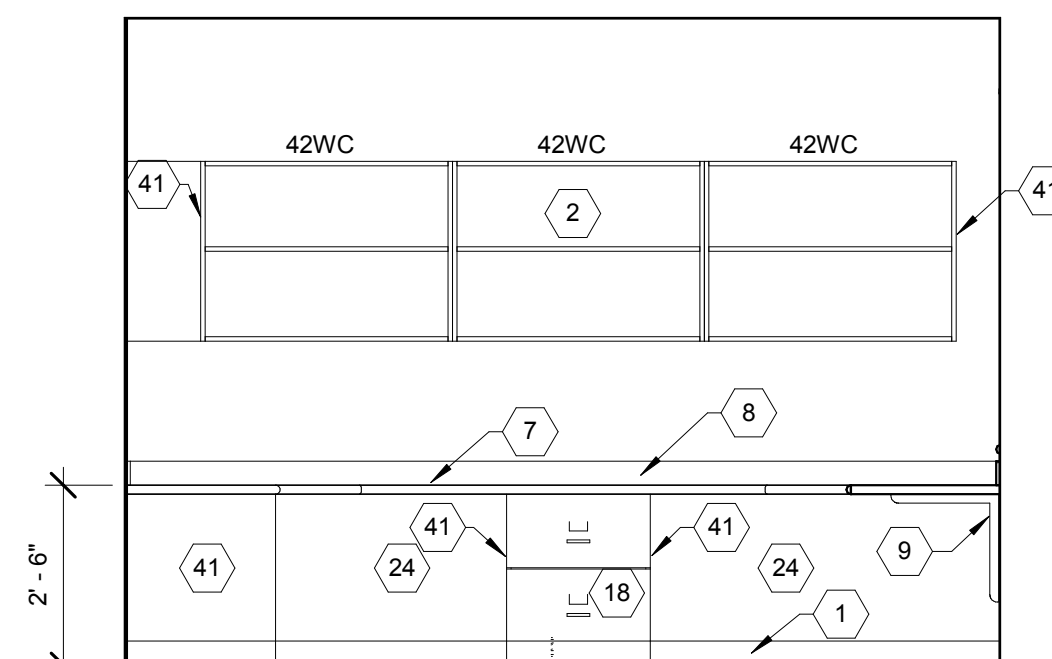
**B2 DUPLICATION AREA - EAST**  
3/8" = 1'-0"



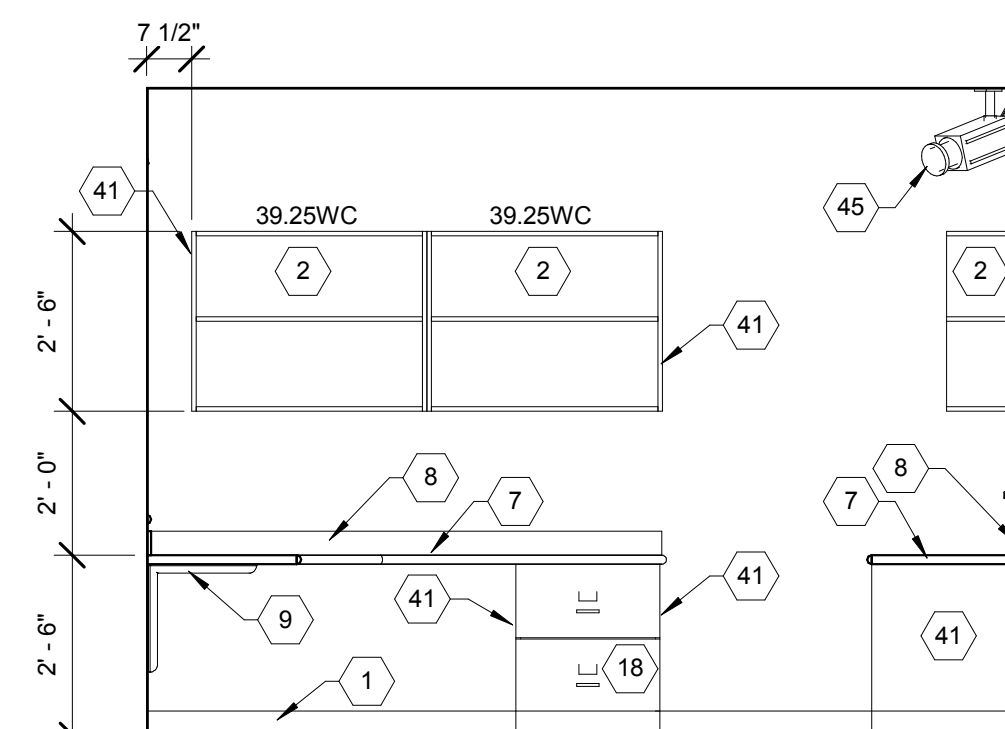
**B3 DUPLICATION AREA - WEST**  
3/8" = 1'-0"



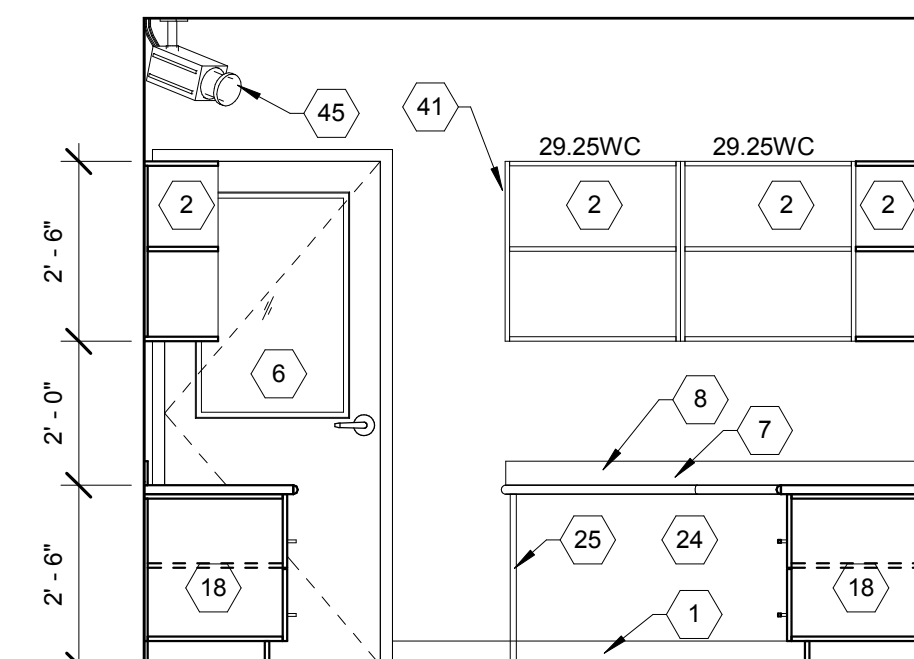
**A1 CLERKS #105 - EAST**  
3/8" = 1'-0"



**A2 CLERKS #105 - NORTH**  
3/8" = 1'-0"



**A3 CLERKS #105 - SOUTH**  
3/8" = 1'-0"



**A4 CLERKS #105 - WEST**  
3/8" = 1'-0"

GENERAL NOTE:  
WITH THE EXCEPTION OF THE COUNTERTOP IN KITCHENETTE #119 AND THE AREA OF THE SINK IN REPAIR #109, ALL COUNTERTOPS AND BACKSPLASHS ARE TO BE PARTICLEBOARD (WITHOUT PLASTIC LAMINATE) COVERED WITH CARPET - IN THE ABOVE MENTIONED EXCEPTIONS, PROVIDE PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH.  
THE WALL SHELVES IN THE "READING ROOMS" ARE TO BE PARTICLEBOARD COVERED WITH CARPET (NO PLASTIC LAMINATE)  
REFER TO DETAIL B4/AE-503

## KEYED NOTES

REFERENCE SHEETS  
AE-203, AE-204 & AE-205

- 1 WALL BASE - SEE FINISH SCHEDULE.
- 2 12" DEEP (CLEAR) PLASTIC LAMINATE OPEN WALL CABINET WITH 1" THICK ADJUSTABLE PLASTIC LAMINATE SHELF.
- 3 12" DEEP (CLEAR) x 12" TALL (CLEAR) PLASTIC LAMINATE OPEN WALL CABINET.
- 4 HARDWOOD WALL CAP/TRIM WITH TRANSPARENT FINISH.
- 5 WINDOW - SEE WINDOW SCHEDULE.
- 6 DOOR - SEE DOOR SCHEDULE.
- 7 24" DEEP COUNTERTOP WITH BULLNOSED EDGE - COUNTERTOP AND BULLNOSED EDGE ARE TO BE COVERED WITH CARPET (SEE B4/AE-503) - PROVIDE GROMMETED HOLES WHERE REQUESTED BY THE OWNER (COORDINATE AS REQ'D.).
- 8 4" HIGH CARPETED BACKSPLASH (SEE B4/AE-503).
- 9 COUNTERTOP SUPPORT BRACKET - PROVIDE FULL RADIUS ON CORNERS - GRIND ALL BURRS SMOOTH - PAINT.
- 10 LOW PARTITION WALL - SEE WALL TYPES SCHEDULE.
- 11 PLASTIC LAMINATE WINDOW SILL WITH BULLNOSED EDGE.
- 12 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 13 ELECTRIC WATER COOLER - SEE PLUMBING AND ELECTRICAL DRAWINGS.
- 14 MOP SINK - SEE PLUMBING DRAWINGS.
- 15 4"x4" THINSET CERAMIC TILE.
- 16 1 1/2" THICK PLASTIC LAMINATE WORKSTATION DIVIDERS.
- 17 HEAVY DUTY WALL STANDARDS AND BRACKETS WITH 16" DEEP, 1" THICK PLASTIC LAMINATE SHELVES.
- 18 PLASTIC LAMINATE FILE DRAWERS WITH FULL EXTENSION HARDWARE - VERIFY THAT FINISH DRAWER HEIGHT IS ADEQUATE TO HOLD HANGING FILES WITH TABS (WITH OUT TABS RUBBING), DRAWERS ARE TO BE LOCKABLE IN SECURITY #102 ONLY.
- 19 PLASTIC LAMINATE OPEN FACED SINK CABINET WITH 6" APRON - ALL EXPOSED SURFACES ARE TO BE PLASTIC LAMINATE FINISHED.
- 20 24" DEEP PLASTIC LAMINATE COUNTERTOP WITH 4" PLASTIC LAMINATE BACKSPLASH - PROVIDE FULL BULLNOSED EDGE ON COUNTERTOP.
- 21 SINK - SEE PLUMBING DRAWINGS.
- 22 2" THICK, 4'-0" TALL ACOUSTICAL PANELS MOUNTED TO WALL - PANELS ARE TO BE INSTALLED WITH THE BOTTOM OF THE PANEL AT THE LEVEL OF THE BACKSPLASH (2'-10") AND RUN THE FULL LENGTH OF THE WALL (NORTH TO SOUTH) - SEE SPEC.
- 23 STEEL COLUMN - PAINT ALL EXPOSED SURFACES - WHERE MILLWORK (COUNTERS, WINDOW SILLS ETC.) OCCURS, CONSTRUCT AROUND COLUMN AS REQUIRED FOR A TIGHT, FINISHED FINAL PRODUCT.
- 24 OPEN KNEE SPACE.
- 25 1 1/2" THICK PLASTIC LAMINATE END PANEL.
- 26 4'-0" x 4'-0" WHITEBOARD - SEE SPEC.
- 27 12" DEEP WALL MOUNTED SHELF AND SUPPORT BRACKETS - COVER SHELF SURFACES WITH CARPET (SEE B4/AE-503 SIM) - PROVIDE BLOCKING IN WALL AS REQUIRED.
- 28 MICROWAVE - BY OWNER.
- 29 REFRIGERATOR - BY OWNER.
- 30 12" DEEP FULL HEIGHT OPEN PLASTIC LAMINATE SHELVING UNIT WITH 1" THICK ADJUSTABLE PLASTIC LAMINATE SHELVES.
- 31 ADA COMPLIANT TOILET - SEE PLUMBING DRAWINGS.
- 32 URINAL MOUNT AT 24" FROM FLOOR TO RIM - SEE PLUMBING DRAWINGS.
- 33 LIQUID SOAP DISPENSER TO BE PROVIDED BY THE OWNER & INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #01) - MOUNT AT 38" FROM FINISH FLOOR TO DISPENSER SPOUT - PROVIDE BLOCKING.
- 34 TOILET PAPER DISPENSER TO BE PROVIDED BY THE OWNER & INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #02) - PROVIDE BLOCKING.
- 35 PAPER TOWEL DISPENSER TO BE PROVIDED BY THE OWNER & INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #03) - MOUNT AT 48" MAX. FROM FINISH FLOOR TO HIGHEST OPERABLE PART - PROVIDE BLOCKING.
- 36 12"x16" STAINLESS STEEL MIRROR (DETENTION GRADE) - SEE SPEC. (TBA #04) - MOUNT AT HEIGHTS INDICATED FROM FINISHED FLOOR TO REFLECTIVE SURFACE.
- 37 42" GRAB BAR - SEE SPEC. (TBA #05) - PROVIDE BLOCKING.
- 38 36" GRAB BAR - SEE SPEC. (TBA #06) - PROVIDE BLOCKING.
- 39 18" GRAB BAR MOUNTED VERTICALLY - SEE SPEC. (TBA #07) - PROVIDE BLOCKING.
- 40 STAINLESS STEEL MOP RACK / SHELF UNIT - SEE SPEC. (TBA #08) - PROVIDE BLOCKING.
- 41 FINISHED END.
- 42 URINAL / TOILET PARTITION - SEE SPEC.
- 43 ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS.
- 44 4" TALL PLASTIC LAMINATE DIVIDER / SPLASH - PROVIDE 2" DIA. RADIUS ON FRONT EDGE.
- 45 FUTURE SECURITY CAMERA - N.I.C..
- 46 FIRE EXTINGUISHER - SEE SPEC.
- 47 WATER HEATER - SEE MECHANICAL DRAWINGS.
- 48 LOCATION OF AIR COMPRESSOR - SEE SPEC.
- 49 FURR OUT (2 1/2" METAL STUDS WITH 5/8" GYP. BD. AND PAINT) AROUND STEEL COLUMN BELOW COUNTERTOP.

ARCHITECT'S INFORMATION

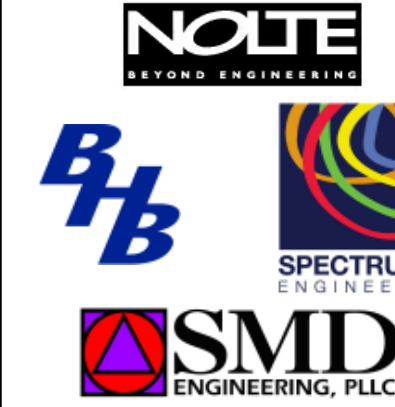


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PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

**READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON**

REVISIONS: A

NO. DATE DESCRIPTION

ISSUED:

NO. DATE DESCRIPTION

#1 01/12/2010 DESIGN DEVELOPEMENT SUBMITTAL

#2 03/01/2010 100% FINAL REVIEW SET

#3 04/04/2010 BID DOCUMENTS

#4 07/07/2010 BID DOCUMENTS (REDESIGN)

OWNER PROJECT #: 09223080

SPE PROJECT #: 09-12

DRAWN BY: GTE

CHECKED BY: SPE

DESIGNED BY: SPE

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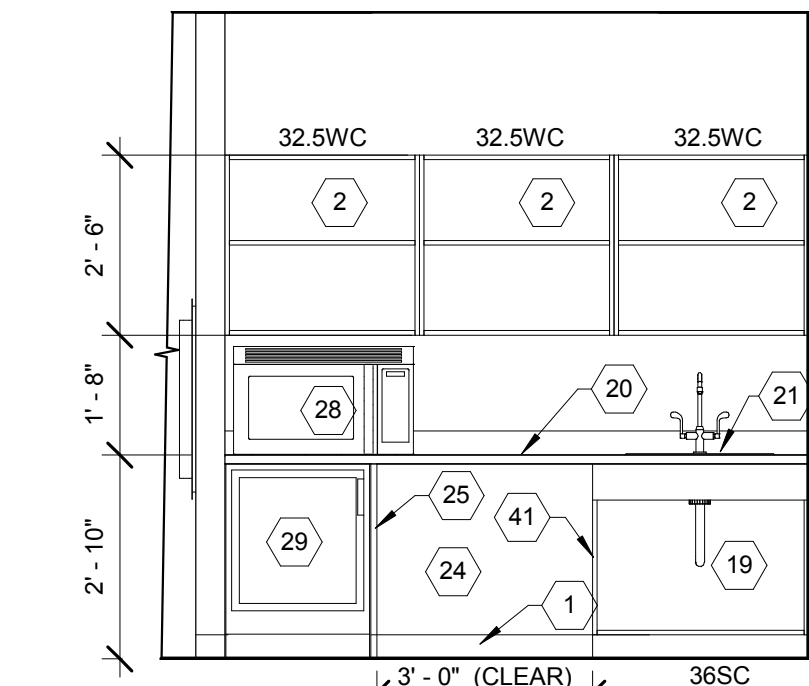
SHEET TITLE:

**INTERIOR  
ELEVATIONS**

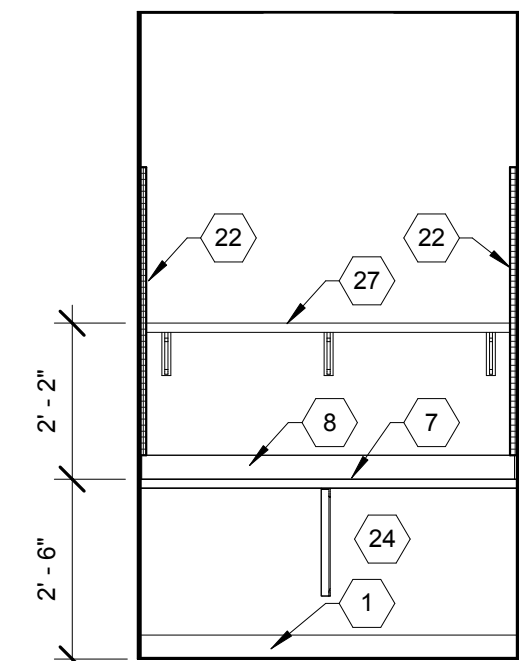
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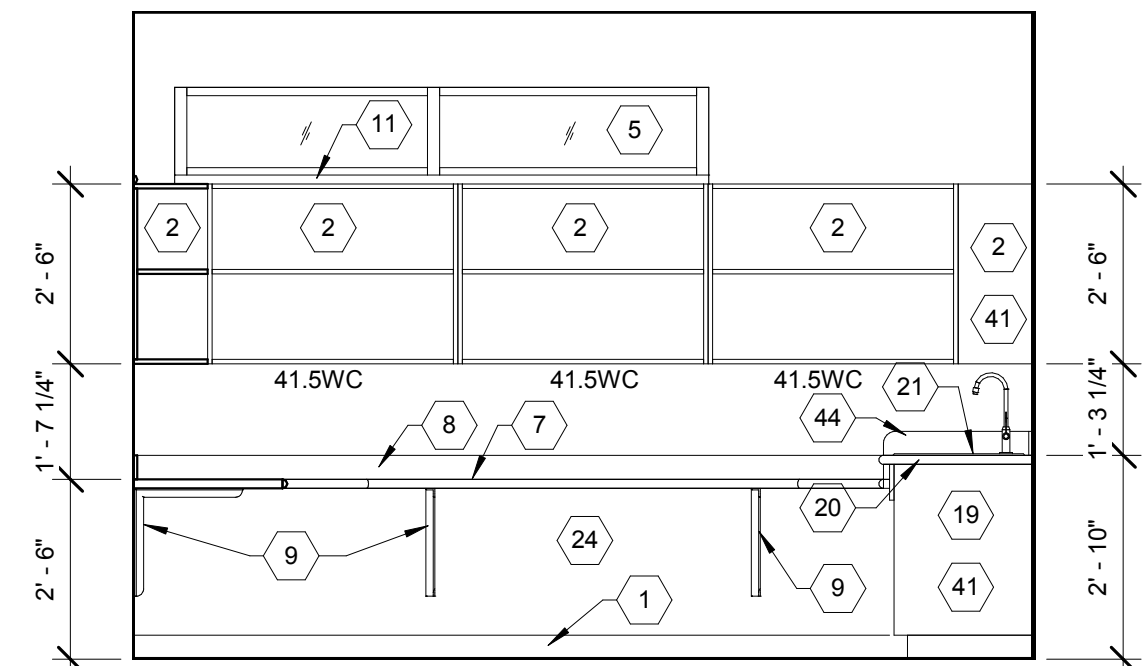




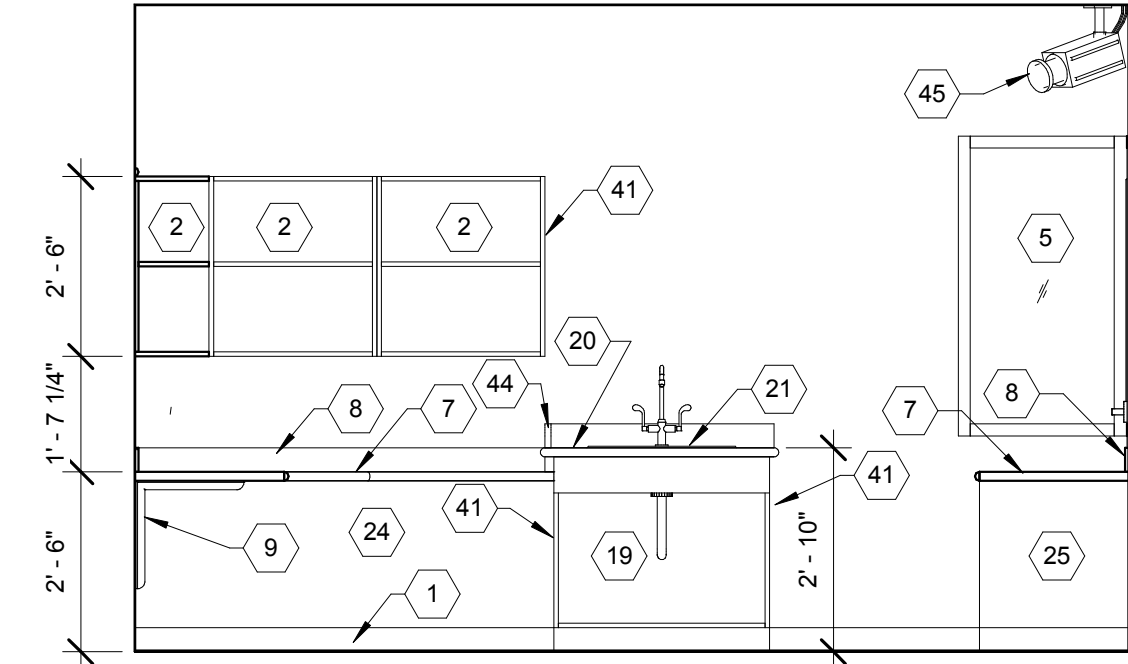
**A1** KITCHENETTE #119 - SOUTH  
3/8" = 1'-0"



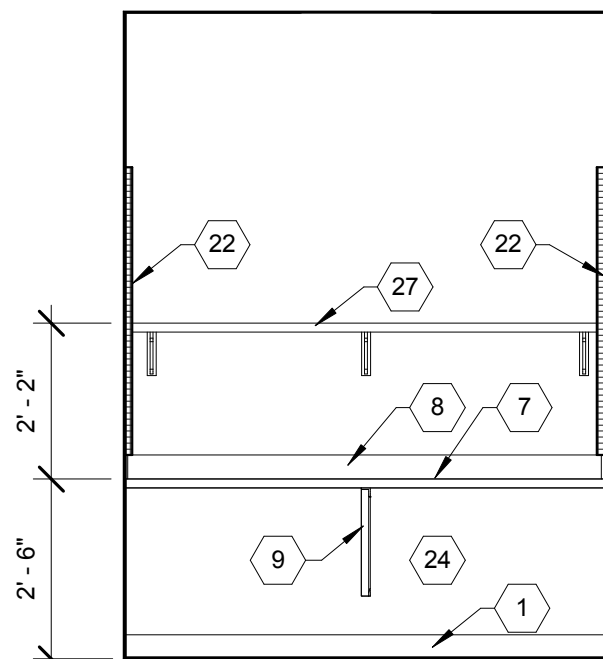
**B1** READING #114 - SOUTH  
3/8" = 1'-0"



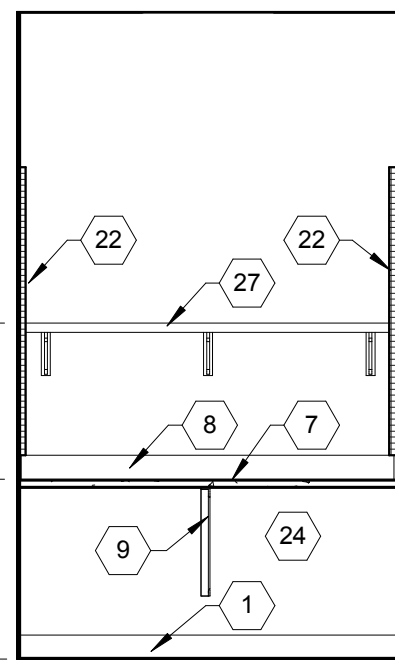
**C1** REPAIR #109 - NORTH  
3/8" = 1'-0"



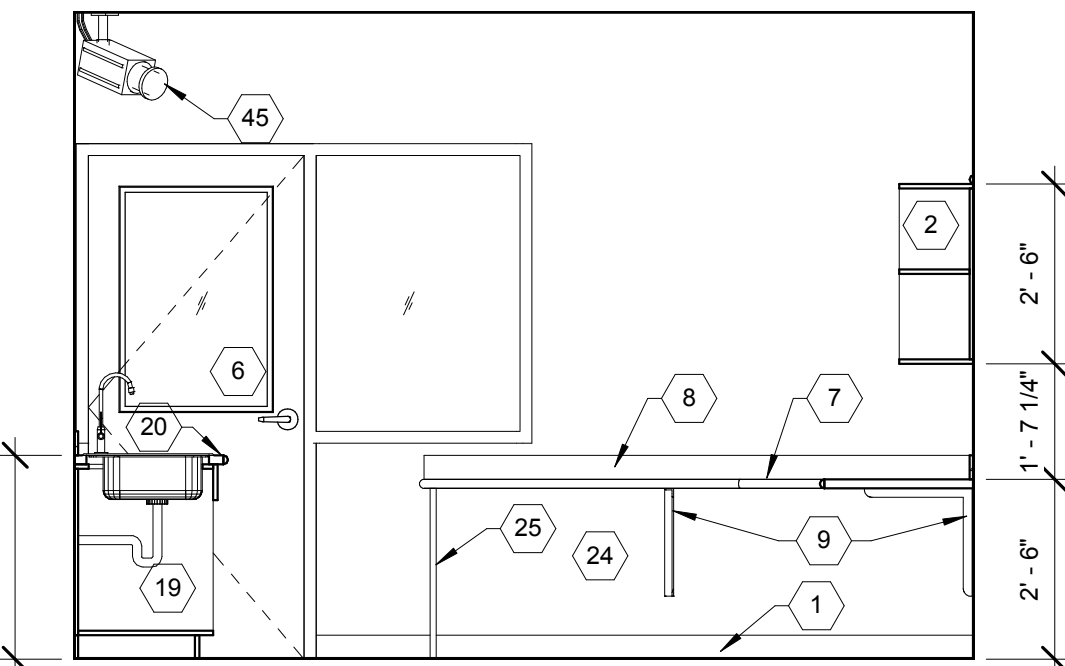
**D1** REPAIR #109 - EAST  
3/8" = 1'-0"



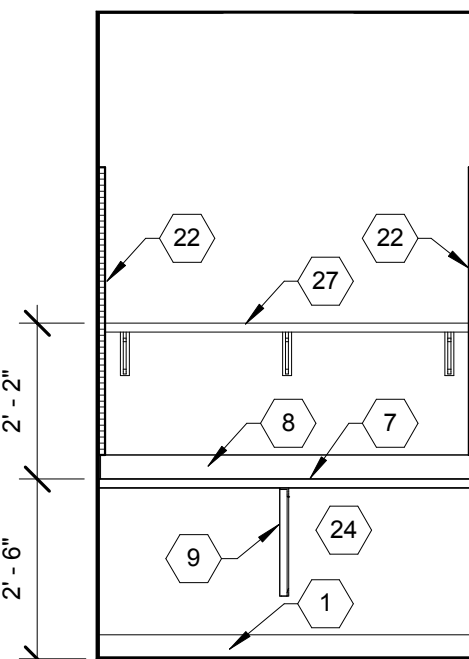
**A2** READING #110 - SOUTH  
3/8" = 1'-0"



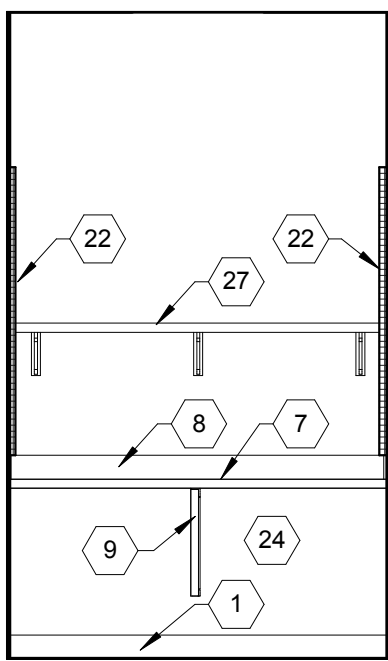
**B2** READING #115 - SOUTH  
3/8" = 1'-0"



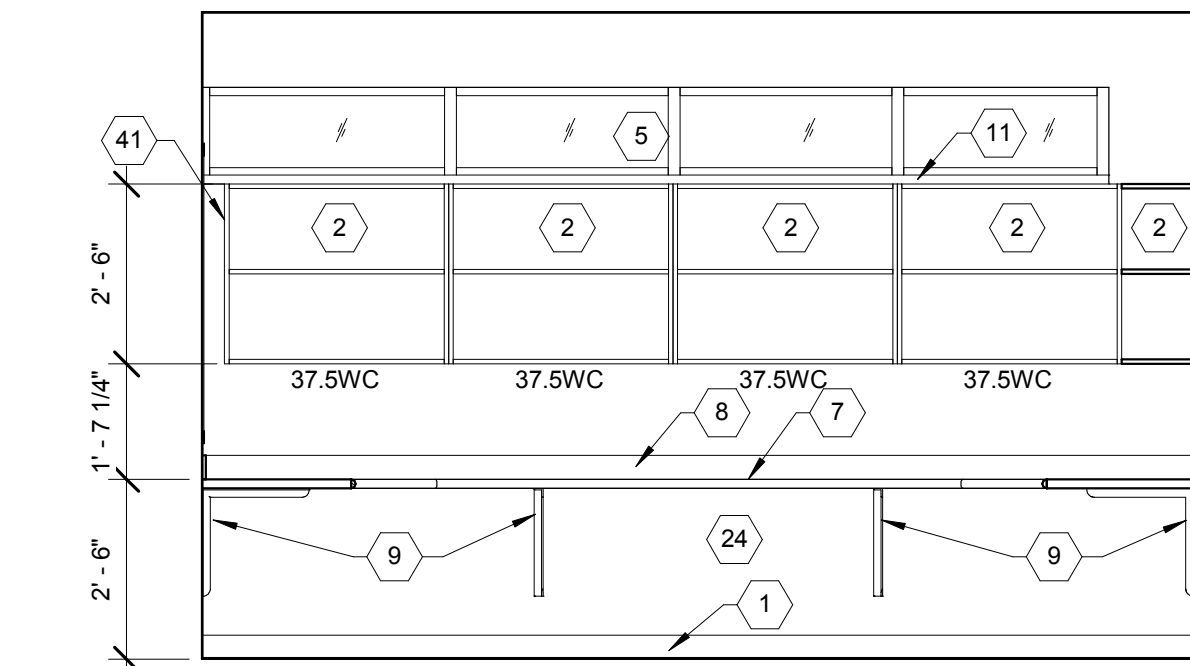
**C2** REPAIR #109 - SOUTH  
3/8" = 1'-0"



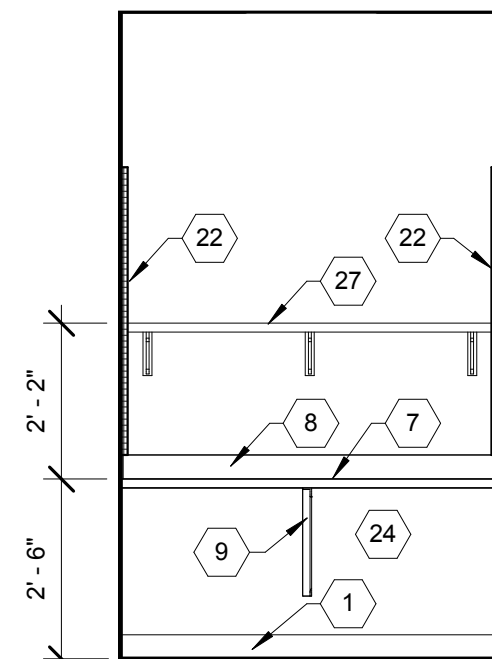
**A3** READING #111 - SOUTH  
3/8" = 1'-0"



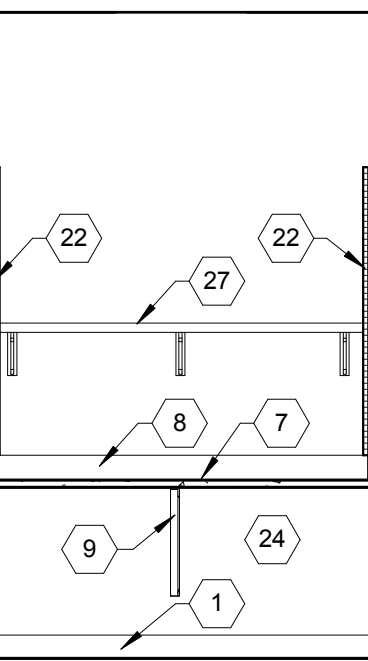
**B3** READING #116 - SOUTH  
3/8" = 1'-0"



**C3** REPAIR #109 - WEST  
3/8" = 1'-0"



**A4** READING #112 - SOUTH  
3/8" = 1'-0"



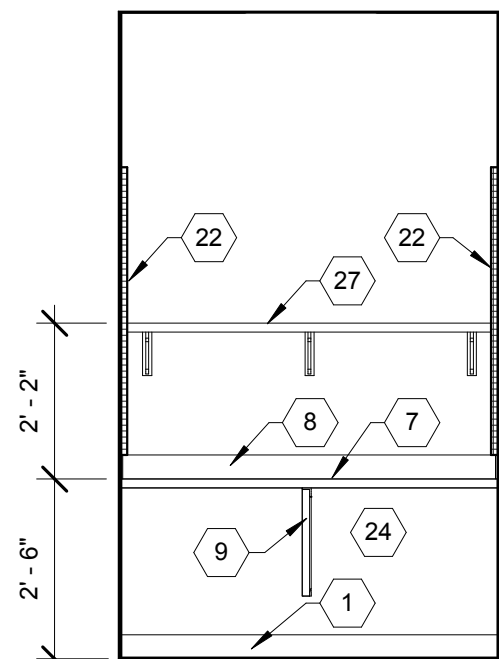
**B4** READING #117 - SOUTH  
3/8" = 1'-0"

GENERAL NOTE:  
WITH THE EXCEPTION OF THE COUNTERTOP IN KITCHENETTE #119 AND THE AREA OF THE SINK IN REPAIR #109, ALL COUNTERTOPS AND BACKSPASHS ARE TO BE PARTICLEBOARD (WITHOUT PLASTIC LAMINATE) COVERED WITH CARPET - IN THE ABOVE MENTIONED EXCEPTIONS, PROVIDE PLASTIC LAMINATE COUNTERTOP AND BACKSPASH.  
THE WALL SHELVES IN THE "READING ROOMS" ARE TO BE PARTICLEBOARD COVERED WITH CARPET (NO PLASTIC LAMINATE)  
REFER TO DETAIL B4/AE-503

## KEYED NOTES

REFERENCE SHEETS  
AE-203, AE-204 & AE-205

- 1 WALL BASE - SEE FINISH SCHEDULE.
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- 5 WINDOW - SEE WINDOW SCHEDULE.
- 6 DOOR - SEE DOOR SCHEDULE.
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- 8 4" HIGH CARPETED BACKSPASH (SEE B4/AE-503).
- 9 COUNTERTOP SUPPORT BRACKET - PROVIDE FULL RADIUS ON CORNERS - GRIND ALL BURRS SMOOTH - PAINT.
- 10 LOW PARTITION WALL - SEE WALL TYPES SCHEDULE.
- 11 PLASTIC LAMINATE WINDOW SILL WITH BULLNOSED EDGE.
- 12 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 13 ELECTRIC WATER COOLER - SEE PLUMBING AND ELECTRICAL DRAWINGS.
- 14 MOP SINK - SEE PLUMBING DRAWINGS.
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- 16 1 1/2" THICK PLASTIC LAMINATE WORKSTATION DIVIDERS.
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- 45 FUTURE SECURITY CAMERA - N.I.C..
- 46 FIRE EXTINGUISHER - SEE SPEC.
- 47 WATER HEATER - SEE MECHANICAL DRAWINGS.
- 48 LOCATION OF AIR COMPRESSOR - SEE SPEC.
- 49 FURR OUT (2.5" METAL STUDS WITH 5/8" GYP. BD. AND PAINT) AROUND STEEL COLUMN BELOW COUNTERTOP.



**A5** READING #113 - SOUTH  
3/8" = 1'-0"

ARCHITECT'S INFORMATION



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PROFESSIONAL STAMP:

CONSULTANTS:



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#2 03/01/2010 100% FINAL REVIEW SET

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#4 07/07/2010 BID DOCUMENTS (REDESIGN)

OWNER PROJECT #: 09223080

SPE PROJECT #: 09-12

DRAWN BY: GTE

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DESIGNED BY: SPE

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SHEET TITLE:

**INTERIOR  
ELEVATIONS**

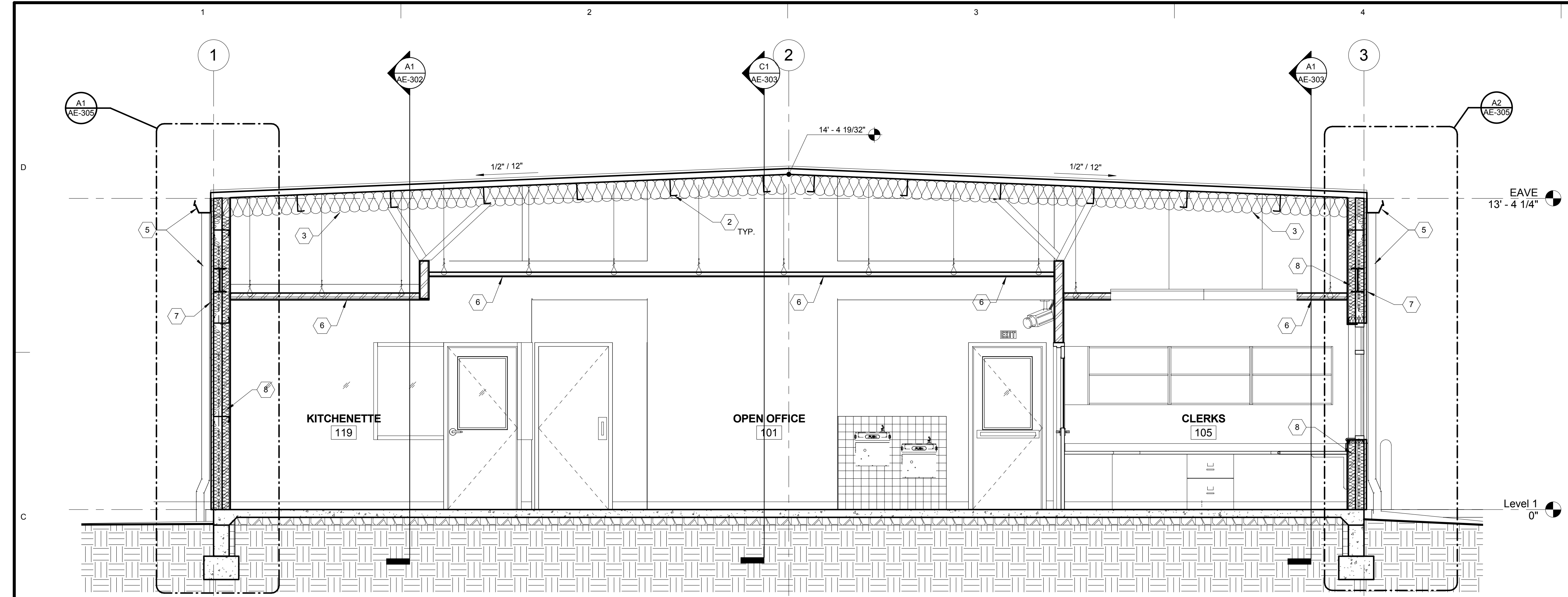
SHEET NUMBER:

**AE-204**

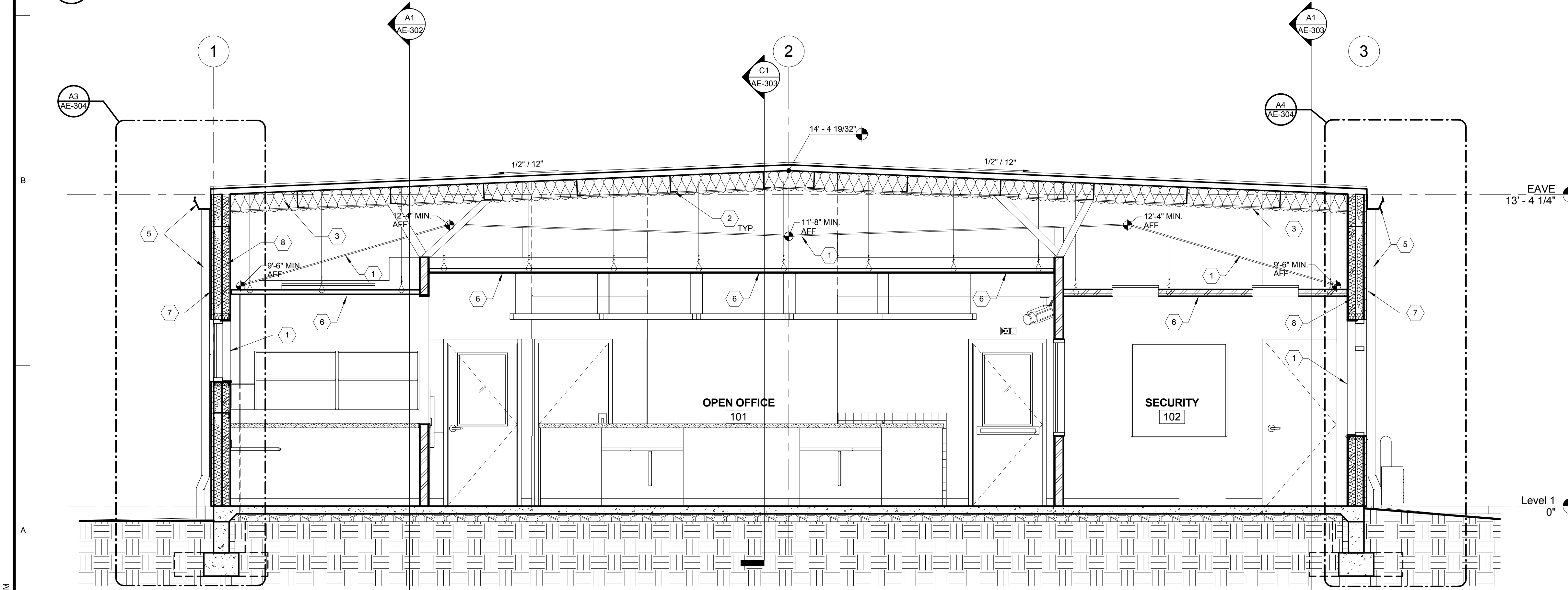








**C1 BUILDING SECTION**  
3/8" = 1'-0"



**A1 BUILDING SECTION**  
3/8" = 1'-0"

- ### KEYED NOTES
- (REFERENCE SHEETS: AE-301, AE-302 & AE-303)
- 1 PRE-ENGINEERED STEEL BUILDING PRIMARY FRAME.
  - 2 PRE-ENGINEERED STEEL BUILDING PURLINS.
  - 3 R-30 (TOTAL MIN. R-VALUE) BATT INSULATION WITH MIN. R-5 THERMAL BLOCKS AND BANDING/VAPOR BARRIER BY METAL BUILDING MANUFACTURER - SEE DETAIL C3/AE-504.
  - 4 ----- NOT USED -----
  - 5 GUTTER AND DOWNSPOUTS BY METAL BUILDING MANUFACTURER.
  - 6 CEILING SYSTEM - SEE REFLECTED CEILING PLAN.
  - 7 METAL SIDING AND RELATED FRAMING / TRIM BY METAL BUILDING MANUFACTURER.
  - 8 2 LAYERS OF R-13 FACED BATT INSULATION.
  - 9 PROVIDE SLIP JOINT AT THE HEAD OF ALL WALLS THAT RUN TO THE DECK (TYP.)
  - 10 RAKE TRIM BY METAL BUILDING MANUFACTURER.



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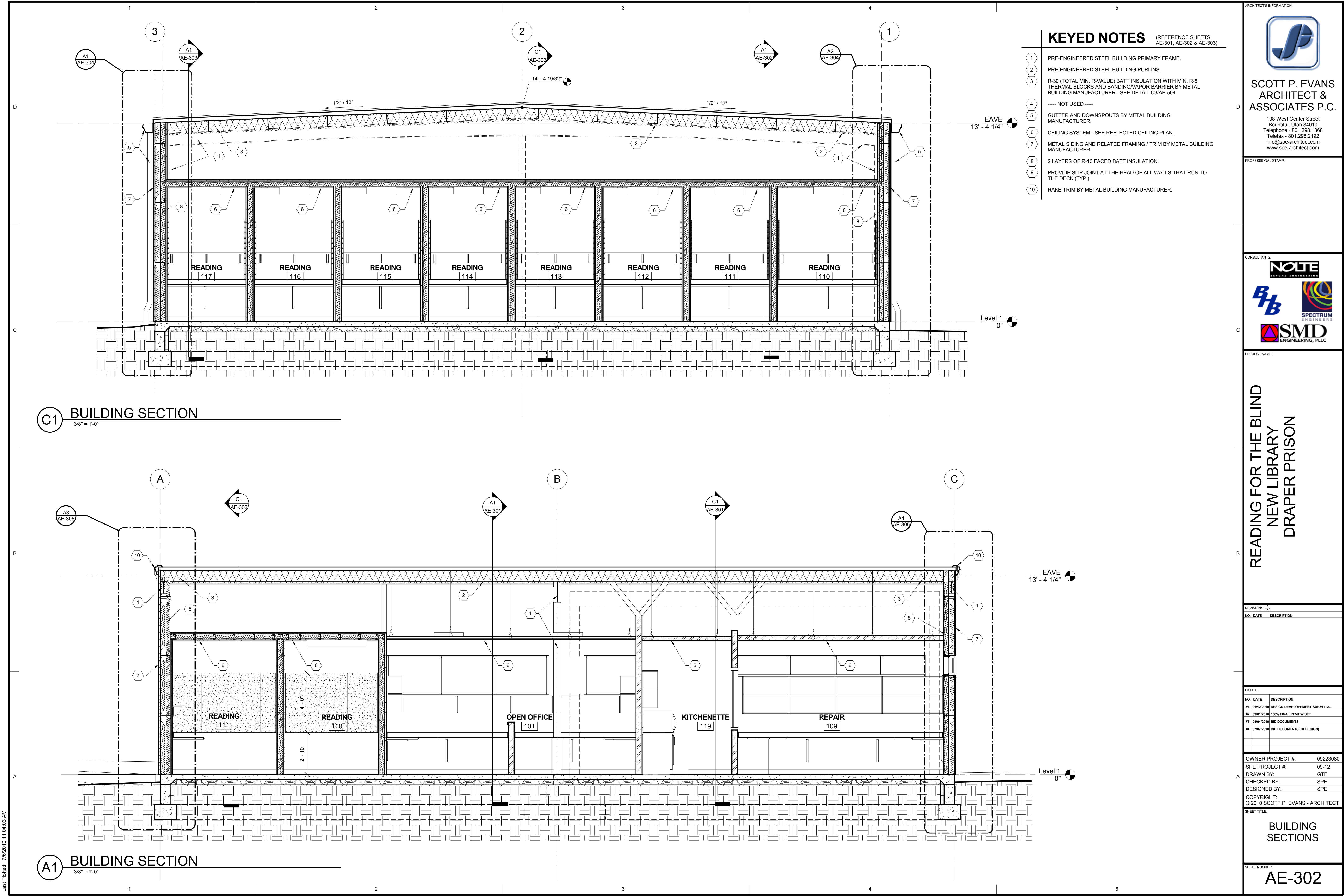
SHEET TITLE:

**BUILDING  
SECTIONS**

SHEET NUMBER:

**AE-301**





- KEYED NOTES** (REFERENCE SHEETS AE-301, AE-302 & AE-303)
- 1 PRE-ENGINEERED STEEL BUILDING PRIMARY FRAME.
  - 2 PRE-ENGINEERED STEEL BUILDING PURLINS.
  - 3 R-30 (TOTAL MIN. R-VALUE) BATT INSULATION WITH MIN. R-5 THERMAL BLOCKS AND BANDING/VAPOR BARRIER BY METAL BUILDING MANUFACTURER - SEE DETAIL C3/AE-504.
  - 4 ---- NOT USED ----
  - 5 GUTTER AND DOWNSPOUTS BY METAL BUILDING MANUFACTURER.
  - 6 CEILING SYSTEM - SEE REFLECTED CEILING PLAN.
  - 7 METAL SIDING AND RELATED FRAMING / TRIM BY METAL BUILDING MANUFACTURER.
  - 8 2 LAYERS OF R-13 FACED BATT INSULATION.
  - 9 PROVIDE SLIP JOINT AT THE HEAD OF ALL WALLS THAT RUN TO THE DECK (TYP.)
  - 10 RAKE TRIM BY METAL BUILDING MANUFACTURER.

ARCHITECT'S INFORMATION

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**NOLTE**  
DESIGN ENGINEERS

**BHB**

**SMD**  
ENGINEERING, PLLC

**SPECTRUM**  
ENGINEERS

PROJECT NAME:

**READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON**

REVISIONS: 2

NO.	DATE	DESCRIPTION

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NO.	DATE	DESCRIPTION
#1	01/12/2010	DESIGN DEVELOPEMENT SUBMITTAL
#2	03/01/2010	100% FINAL REVIEW SET
#3	04/04/2010	BID DOCUMENTS
#4	07/07/2010	BID DOCUMENTS (REDESIGN)

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SPE PROJECT #: 09-12  
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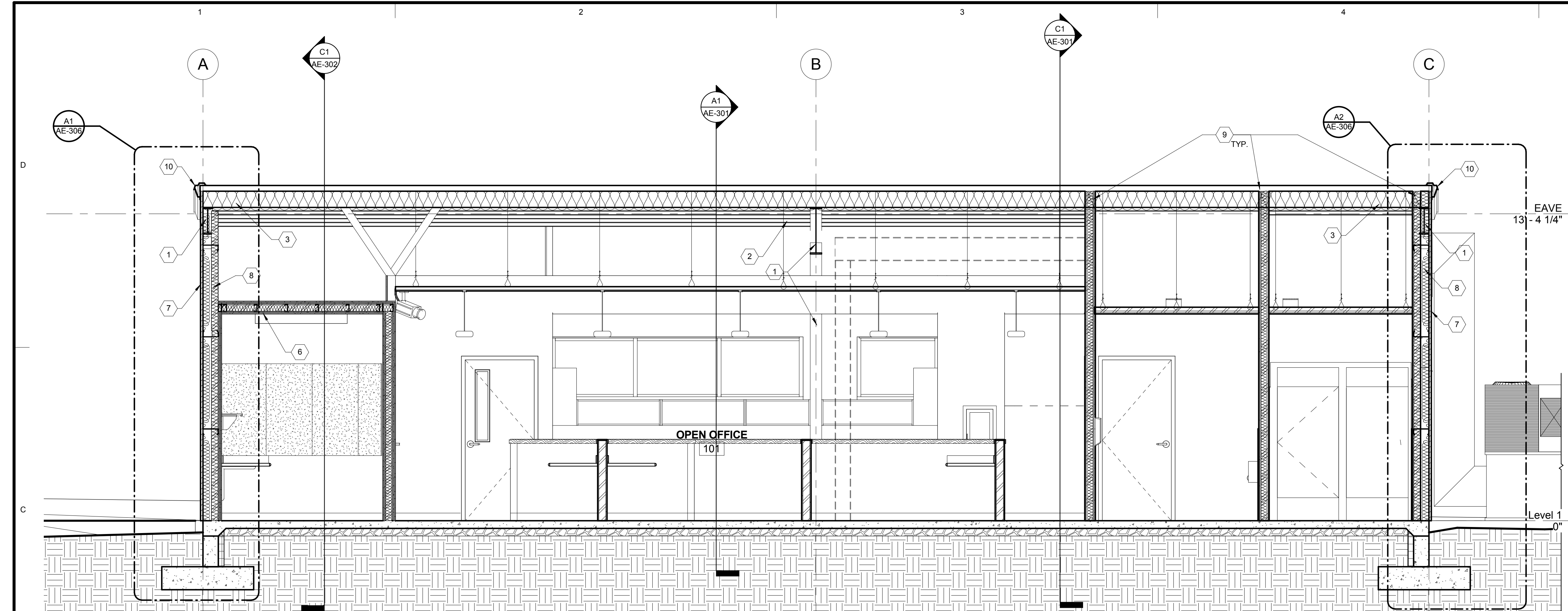
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**BUILDING  
SECTIONS**

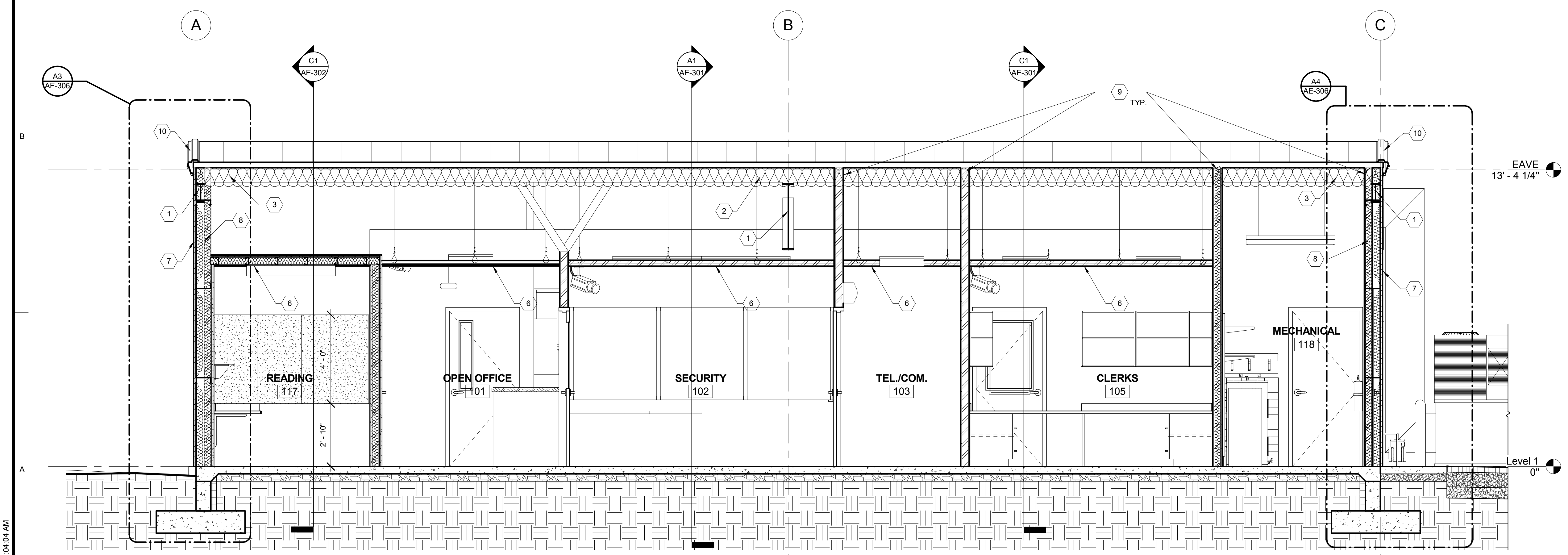
SHEET NUMBER:

**AE-302**






**C1 BUILDING SECTION**  
3/8" = 1'-0"



**A1 BUILDING SECTION**  
3/8" = 1'-0"

- ### KEYED NOTES
- (REFERENCE SHEETS  
AE-301, AE-302 & AE-303)
- 1 PRE-ENGINEERED STEEL BUILDING PRIMARY FRAME.
  - 2 PRE-ENGINEERED STEEL BUILDING PURLINS.
  - 3 R-30 (TOTAL MIN. R-VALUE) BATT INSULATION WITH MIN. R-5 THERMAL BLOCKS AND BANDING/VAPOR BARRIER BY METAL BUILDING MANUFACTURER - SEE DETAIL C3/AE-504.
  - 4 ---- NOT USED ----
  - 5 GUTTER AND DOWNSPOUTS BY METAL BUILDING MANUFACTURER.
  - 6 CEILING SYSTEM - SEE REFLECTED CEILING PLAN.
  - 7 METAL SIDING AND RELATED FRAMING / TRIM BY METAL BUILDING MANUFACTURER.
  - 8 2 LAYERS OF R-13 FACED BATT INSULATION.
  - 9 PROVIDE SLIP JOINT AT THE HEAD OF ALL WALLS THAT RUN TO THE DECK (TYP.)
  - 10 RAKE TRIM BY METAL BUILDING MANUFACTURER.

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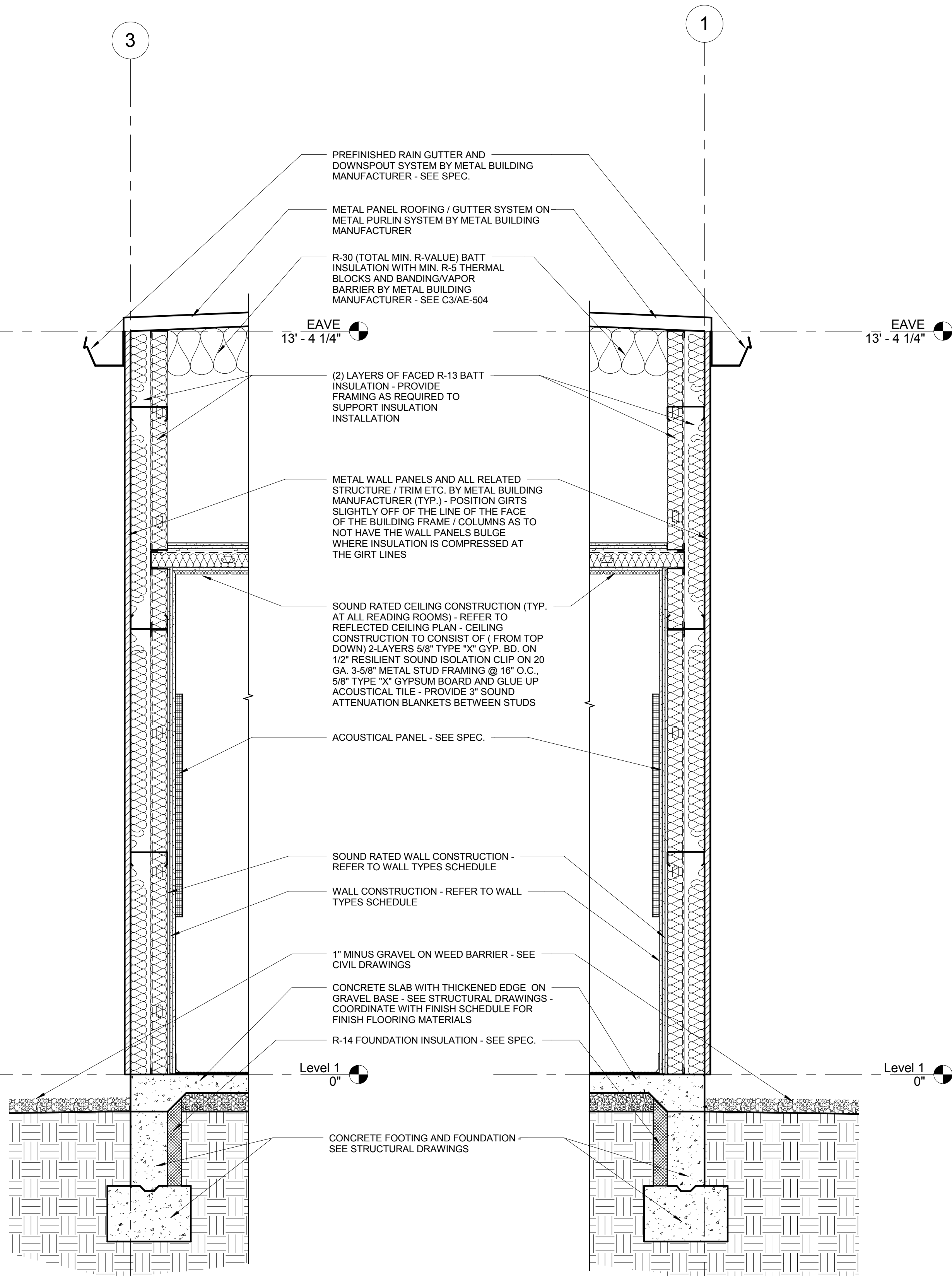
**BUILDING  
SECTIONS**

SHEET NUMBER:

**AE-303**

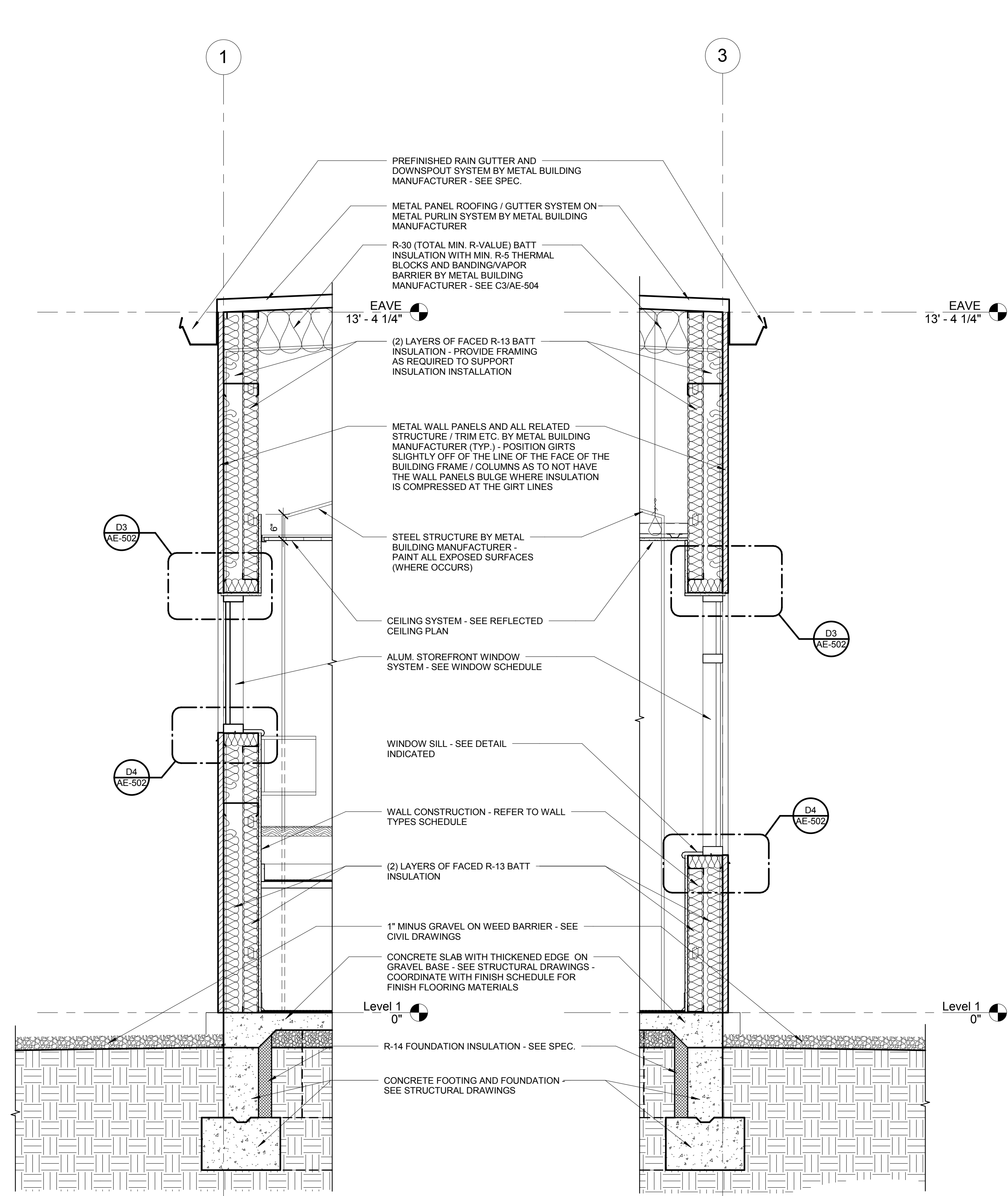


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A1 WALL SECTION  
3/4" = 1'-0"

A2 WALL SECTION  
3/4" = 1'-0"



A3 WALL SECTION  
3/4" = 1'-0"

A4 WALL SECTION  
3/4" = 1'-0"



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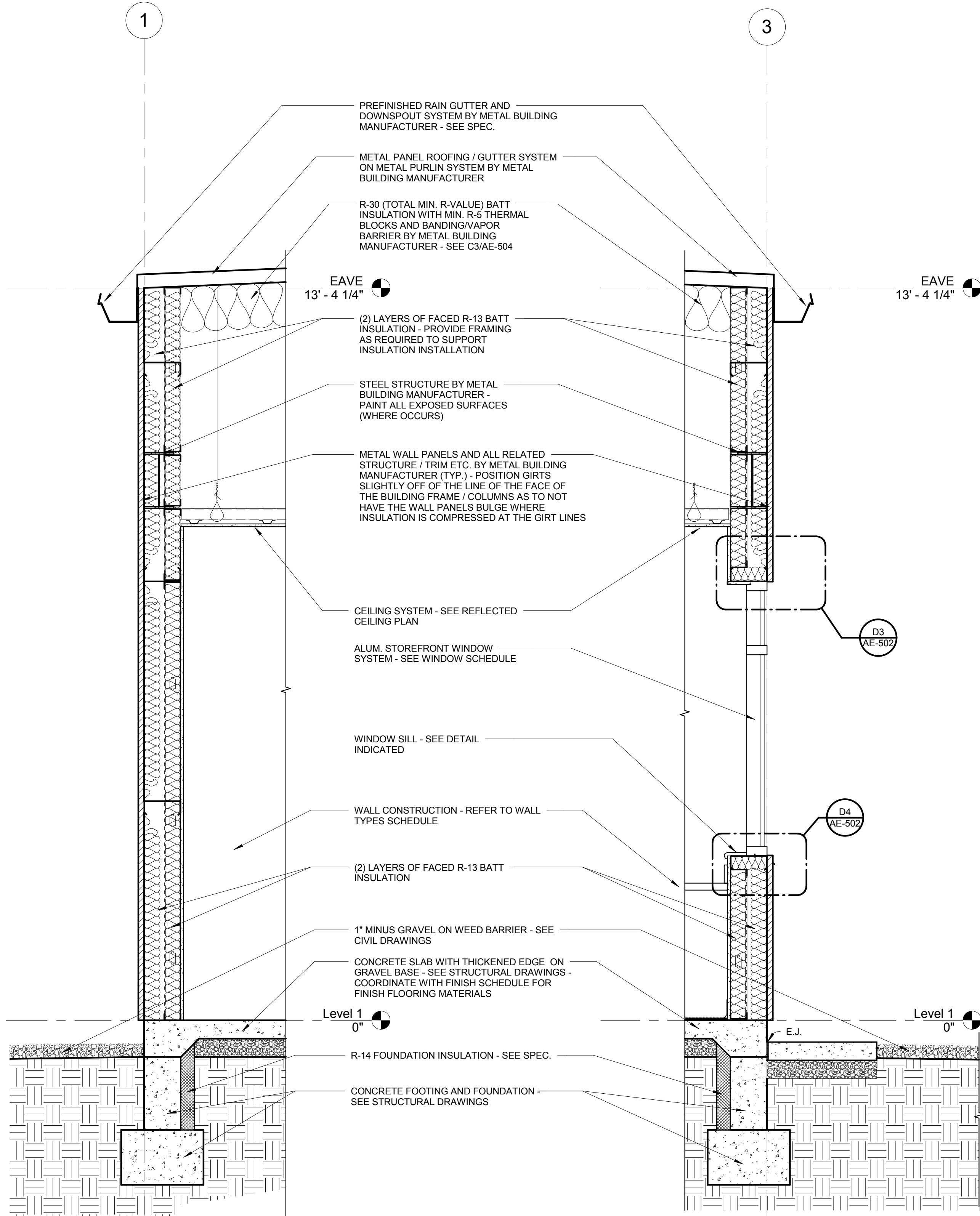
WALL SECTIONS

SHEET NUMBER:

AE-304

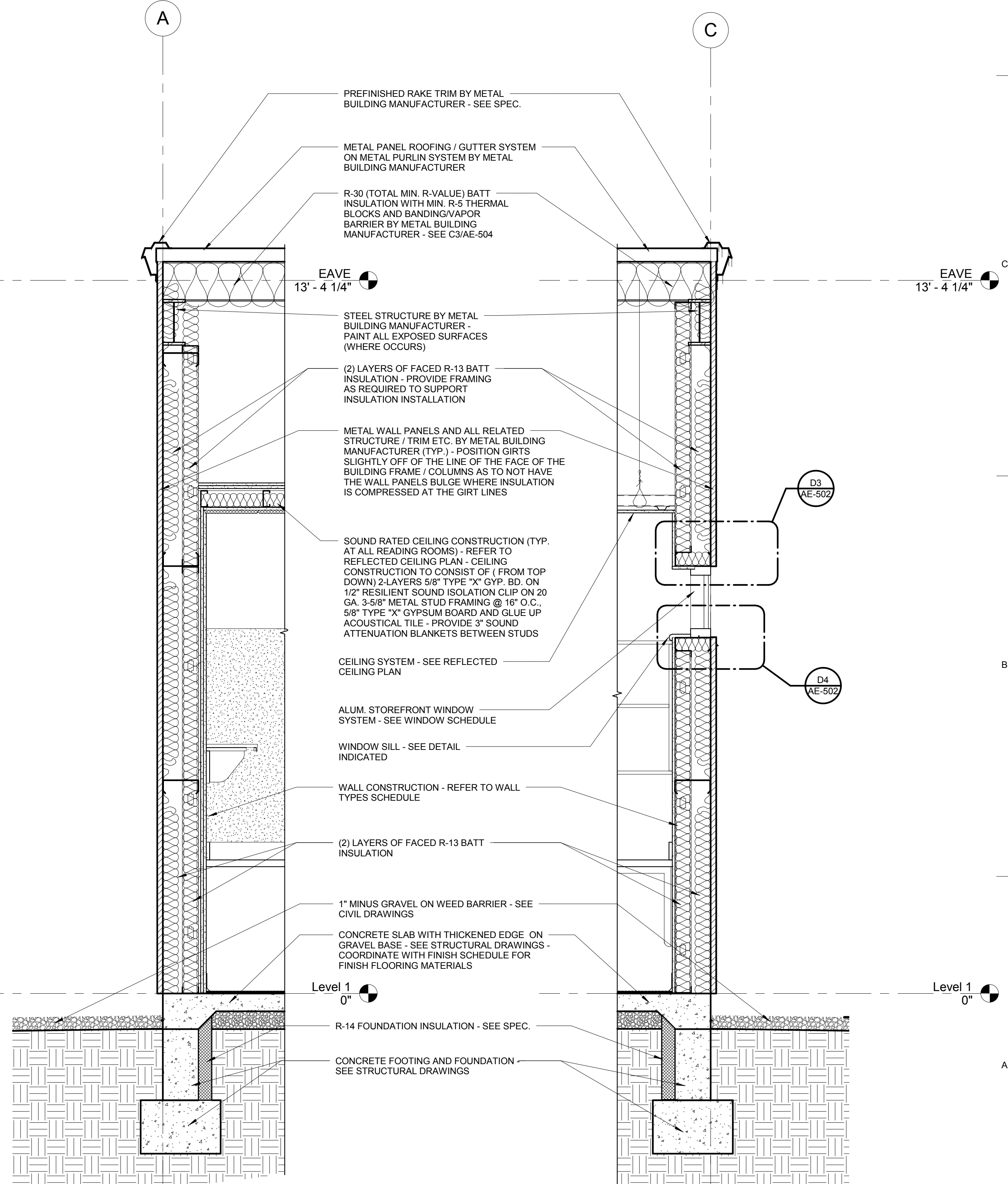


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**A1 WALL SECTION**  
3/4" = 1'-0"

**A2 WALL SECTION**  
3/4" = 1'-0"



**A3 WALL SECTION**  
3/4" = 1'-0"

**A4 WALL SECTION**  
3/4" = 1'-0"



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**SMD**  
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PROJECT NAME:

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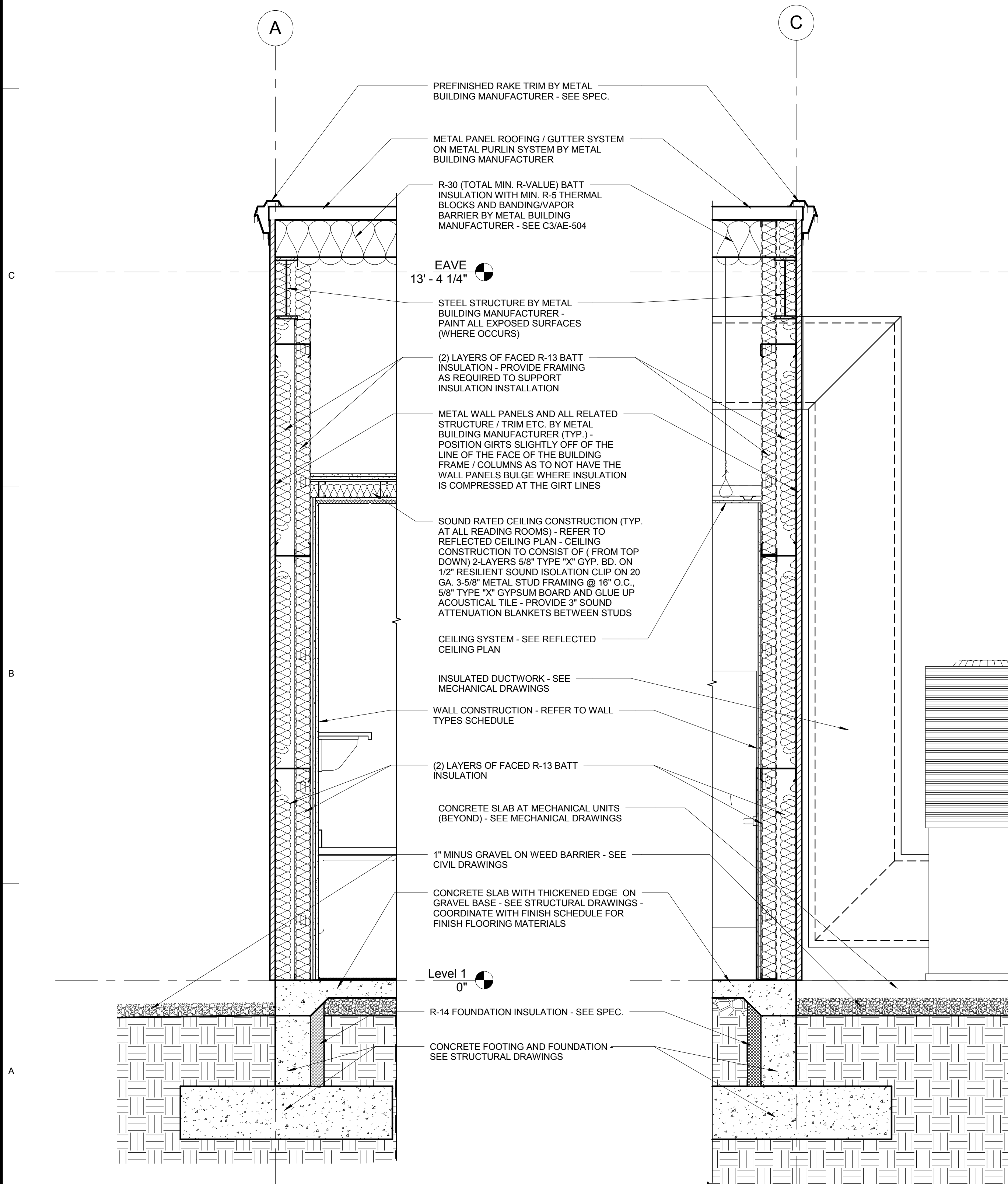
**WALL SECTIONS**

SHEET NUMBER:

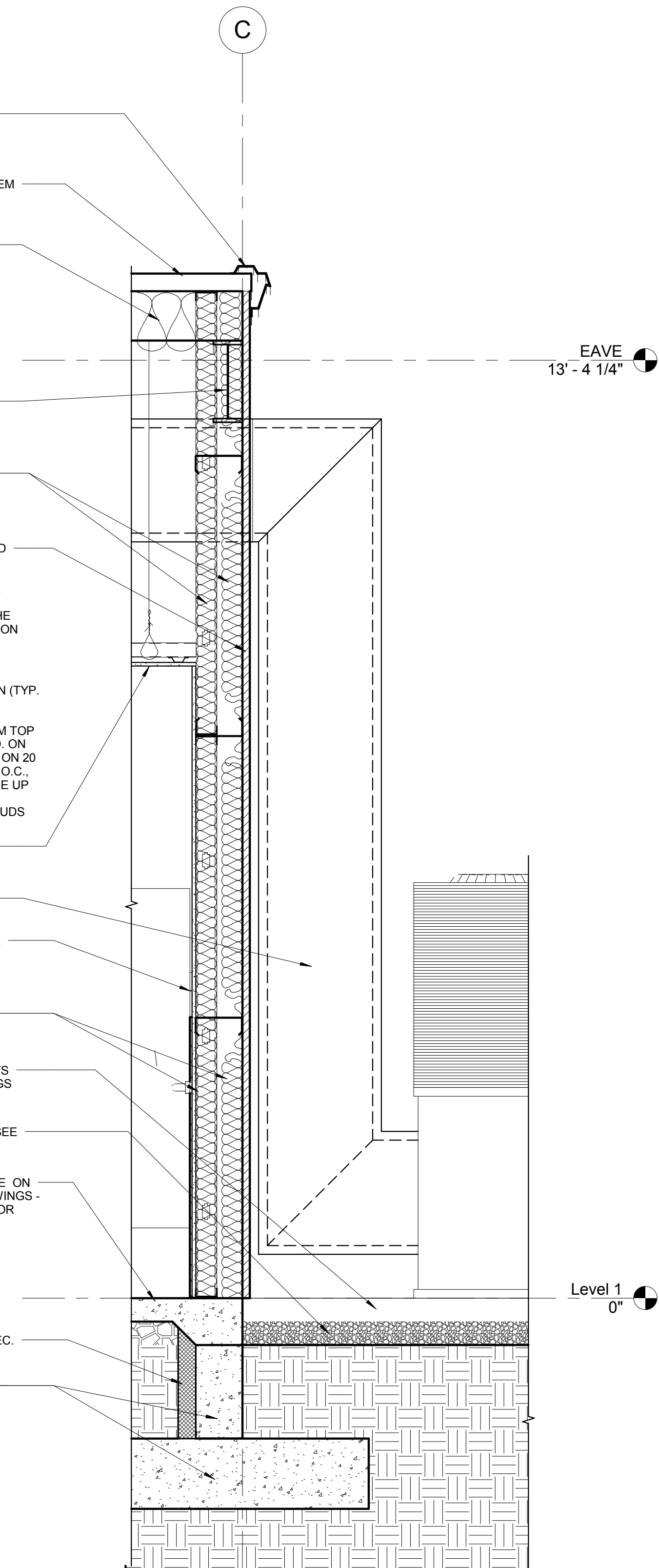
**AE-305**



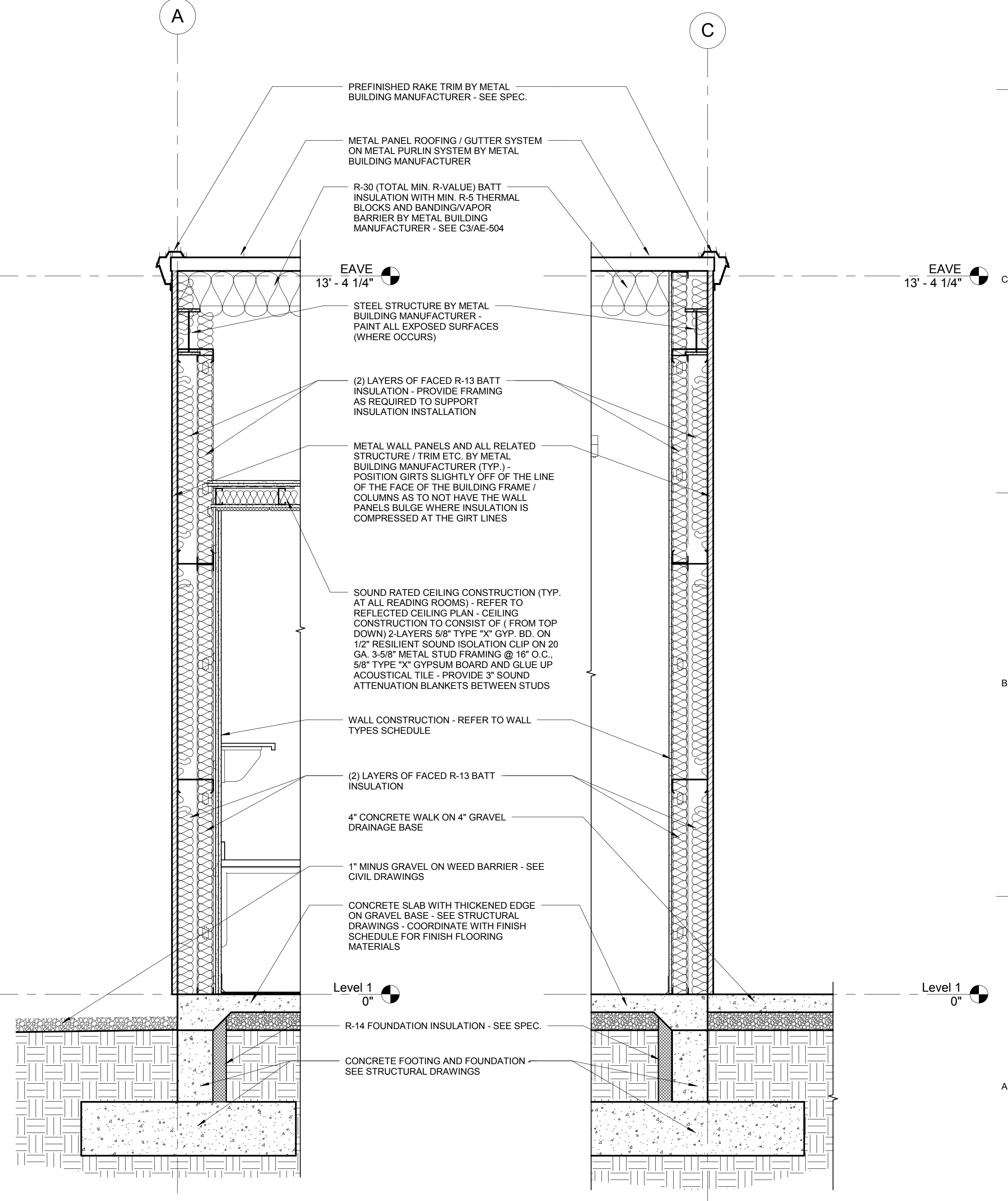
Last Printed: 7/6/2010 11:04:07 AM



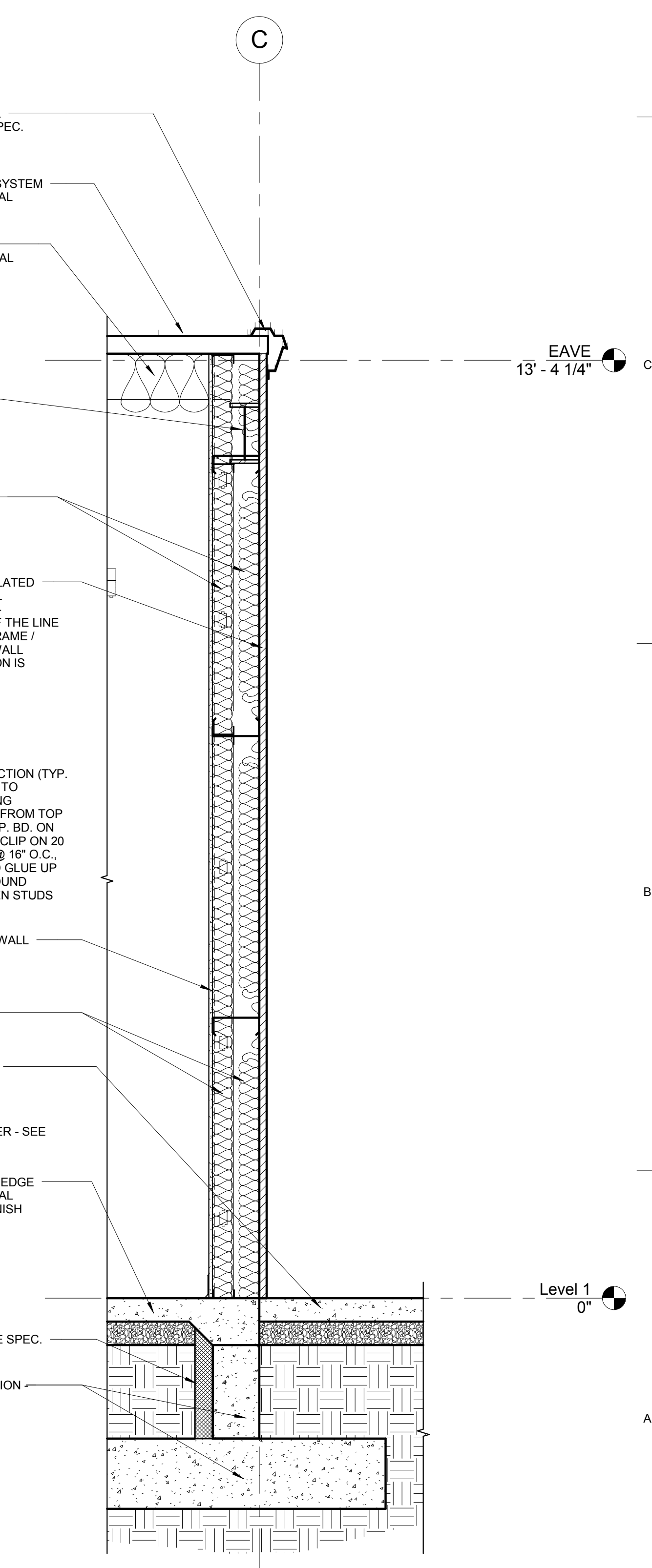
**A1 WALL SECTION**  
3/4" = 1'-0"



**A2 WALL SECTION**  
3/4" = 1'-0"



**A3 WALL SECTION**  
3/4" = 1'-0"



**A4 WALL SECTION**  
3/4" = 1'-0"



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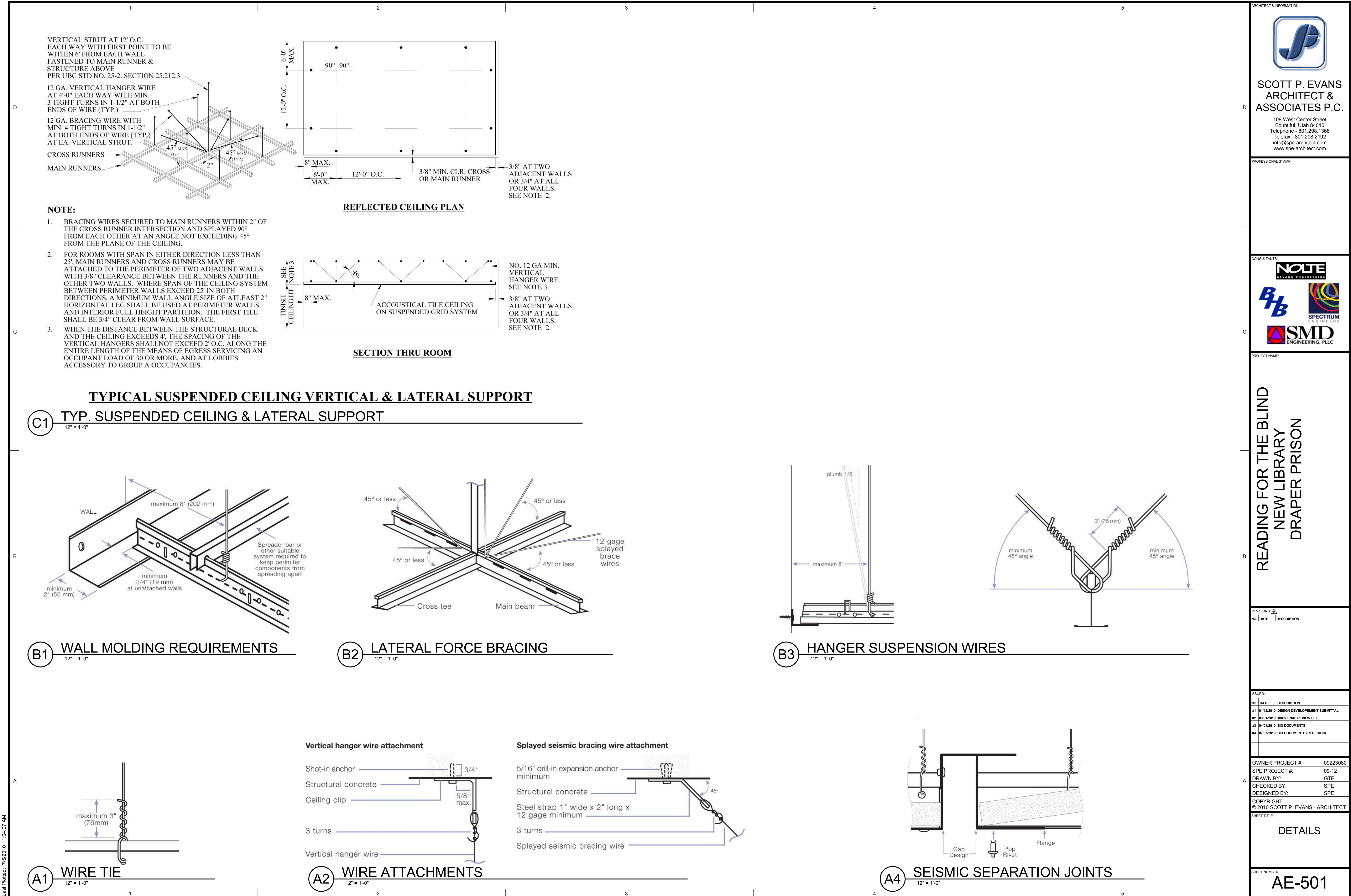
**WALL SECTIONS**

SHEET NUMBER:

**AE-306**



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ENGINEERS

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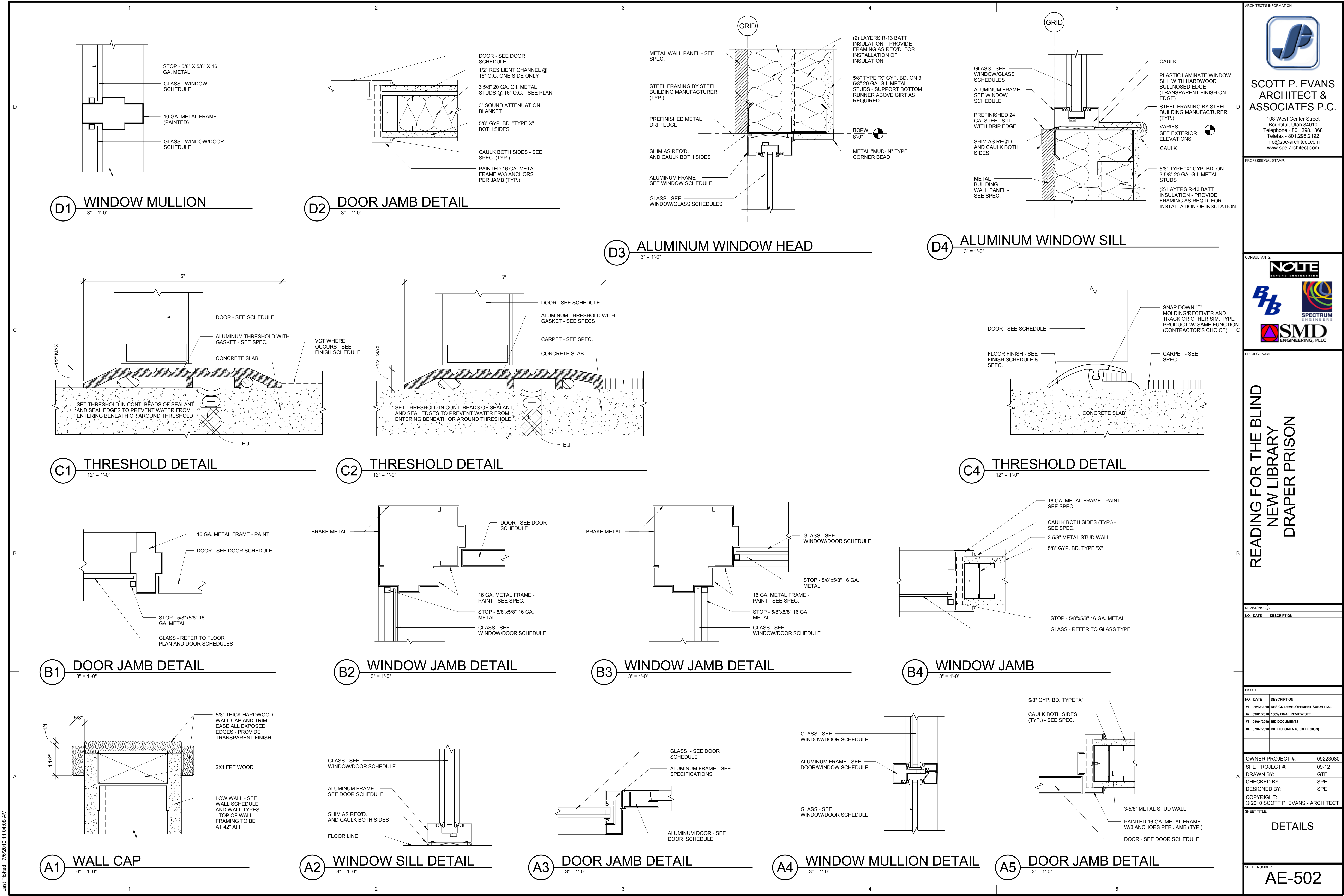
SHEET TITLE:

**DETAILS**

SHEET NUMBER:

**AE-501**





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**B+B**

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ENGINEERS

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SHEET TITLE:

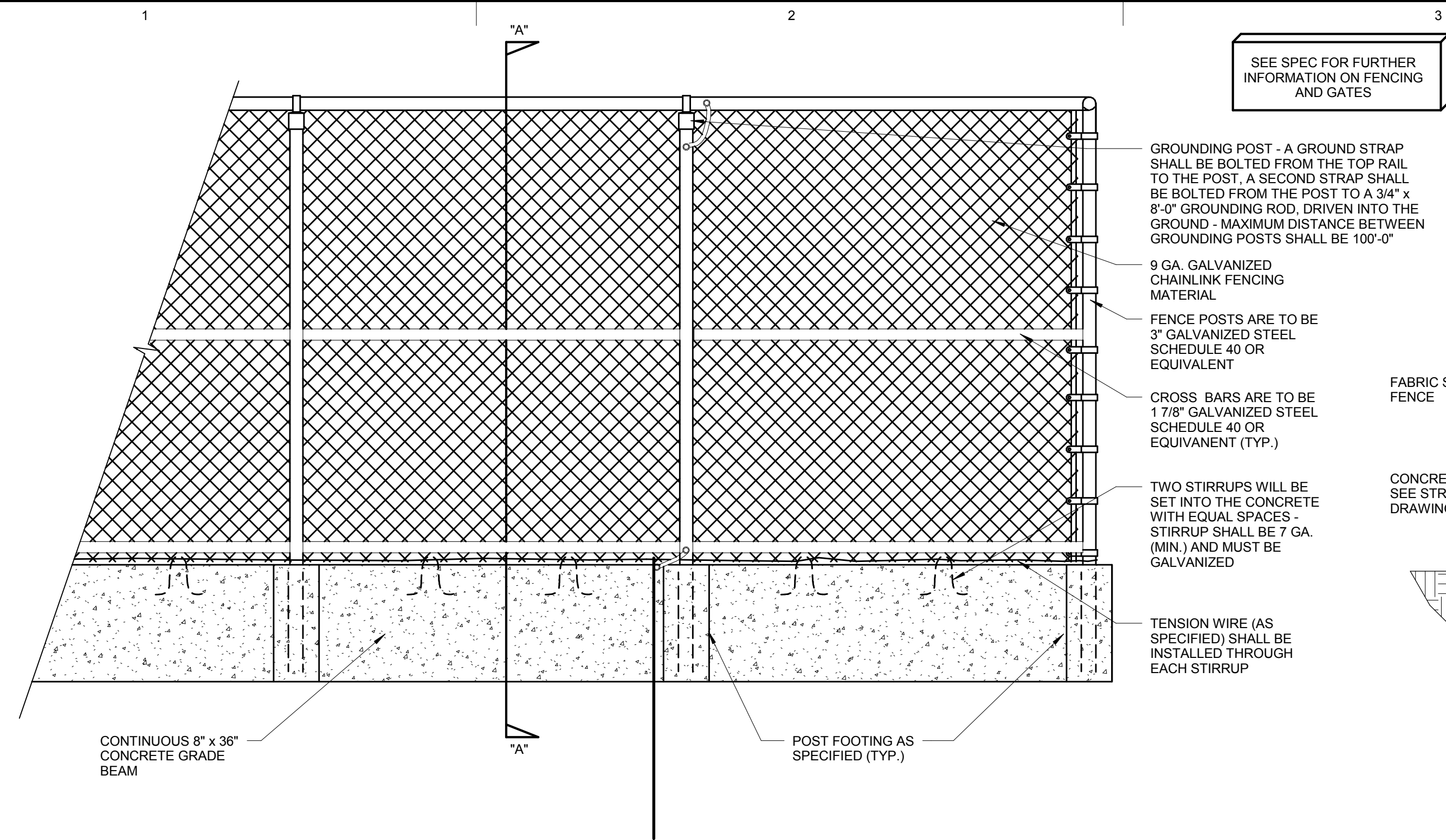
DETAILS

SHEET NUMBER:

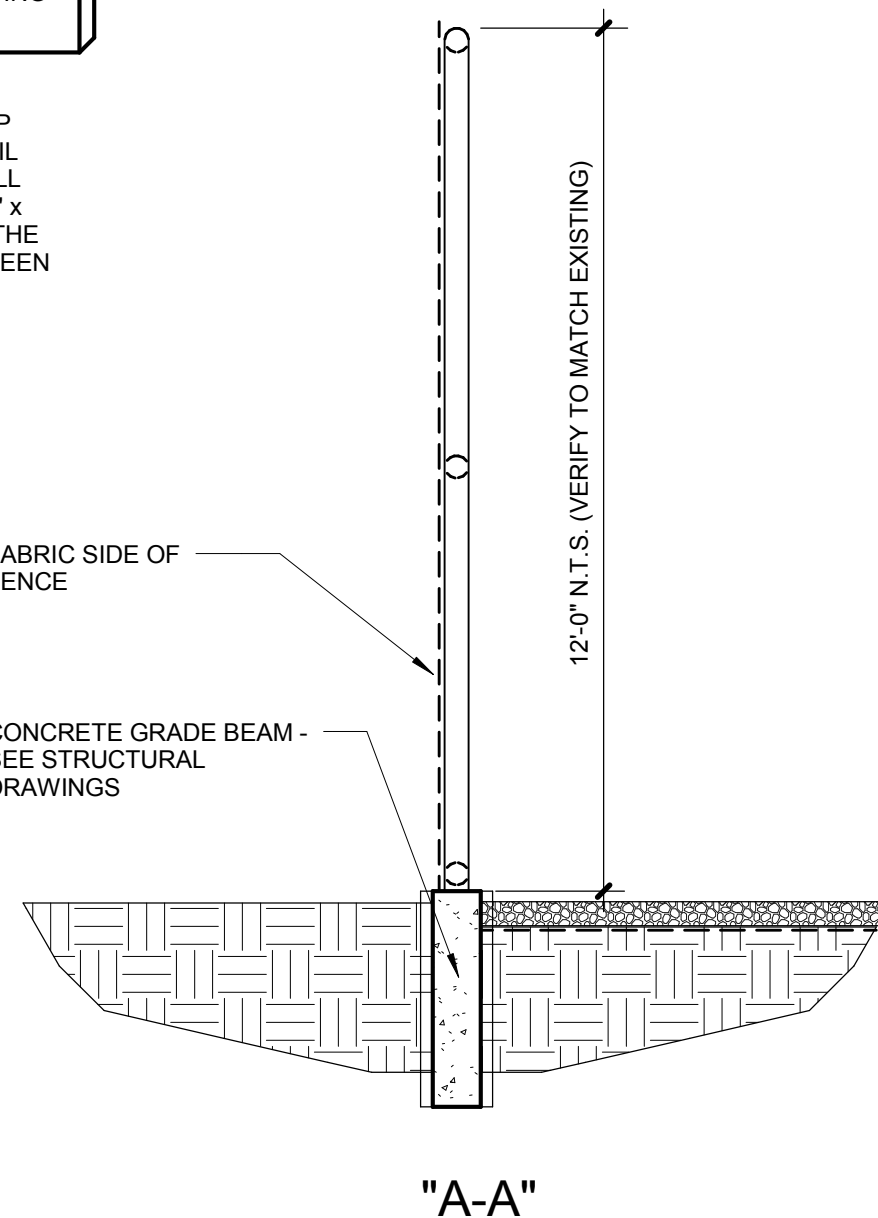
AE-502

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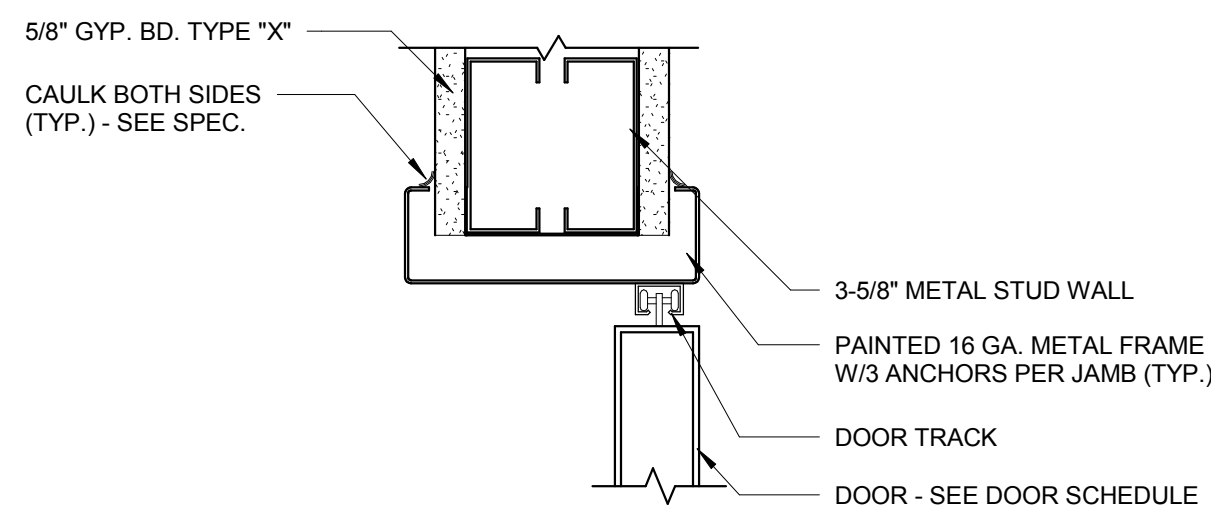




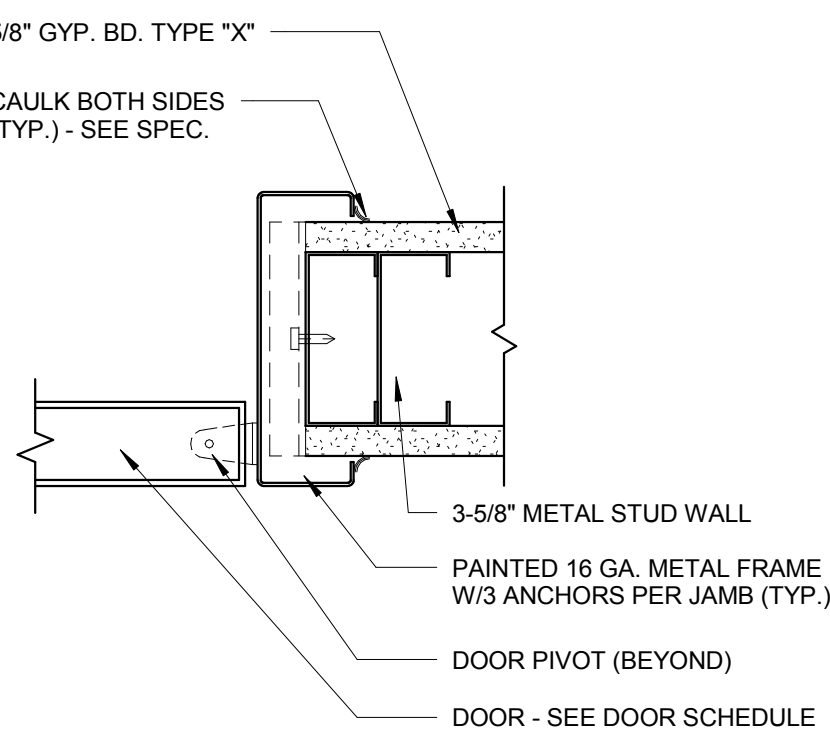
**C1 FENCE ELEVATION & SECTION**  
NOT TO SCALE



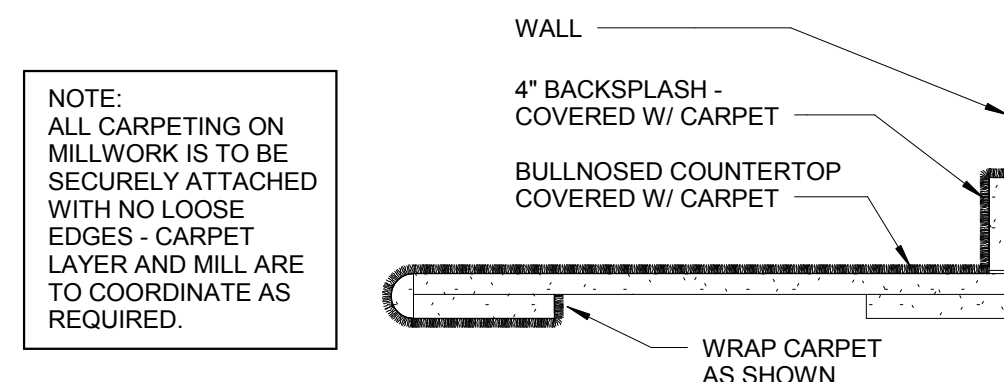
**C4 6" PIPE BOLLARD DETAIL**  
3/4" = 1'-0"



**B1 DOOR HEAD DETAIL**  
3" = 1'-0"

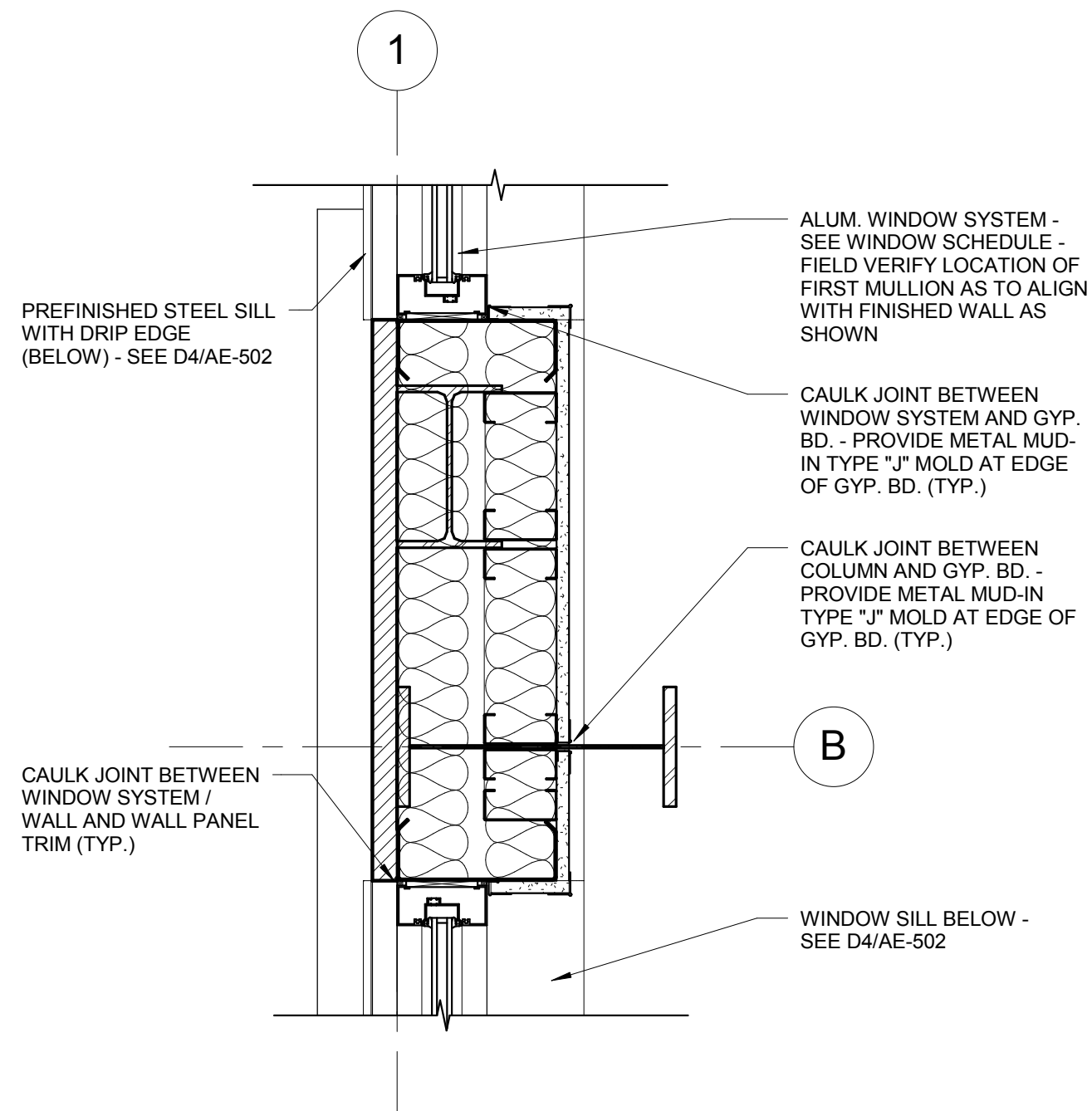


**B2 DOOR JAMB DETAIL**  
3" = 1'-0"

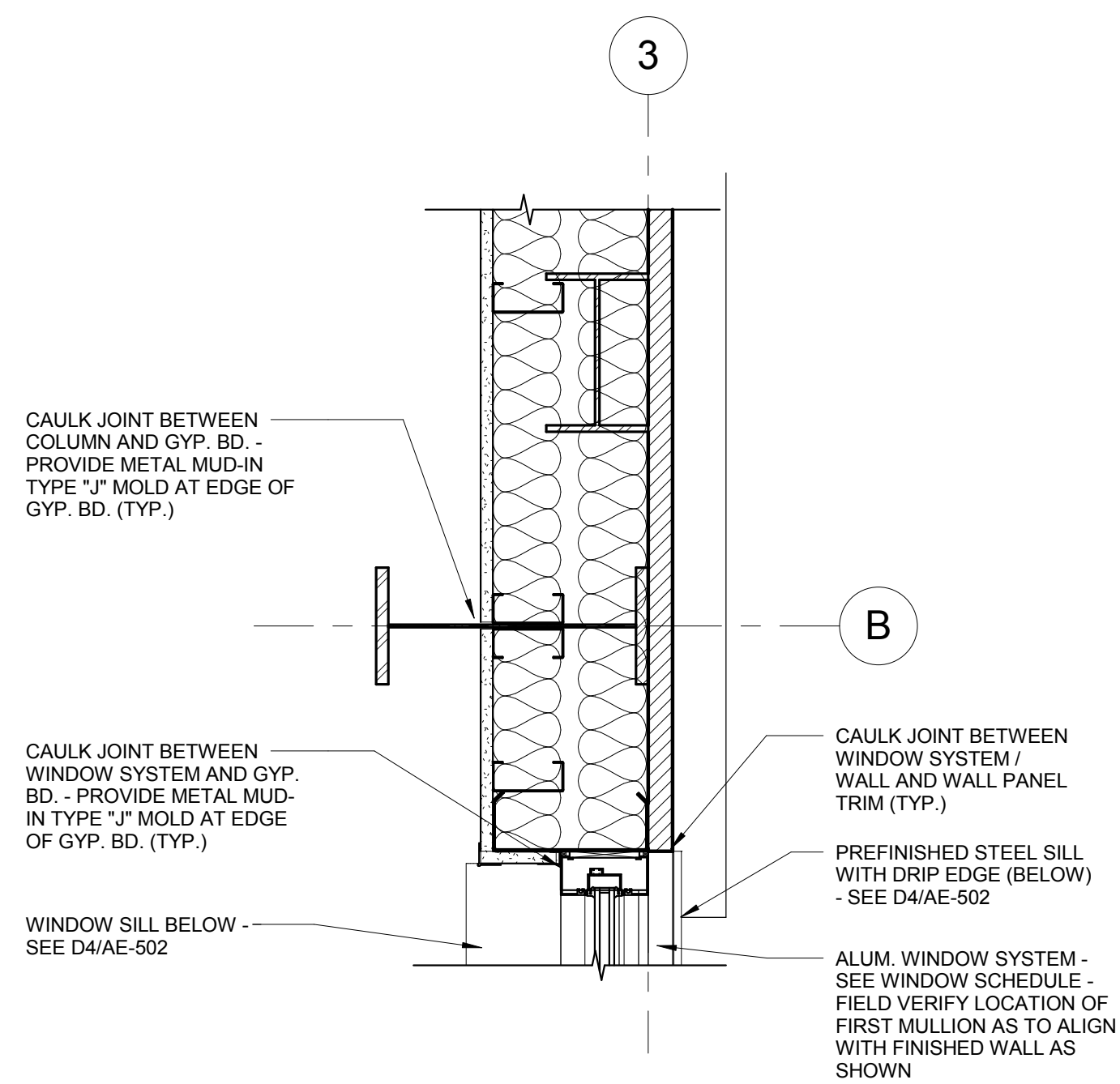


**TYPICAL COUNTERTOP CARPETING**  
(UPPER SHELVES IN READING ROOMS TO BE SIMILAR BUT WITHOUT BACKSPLASH)

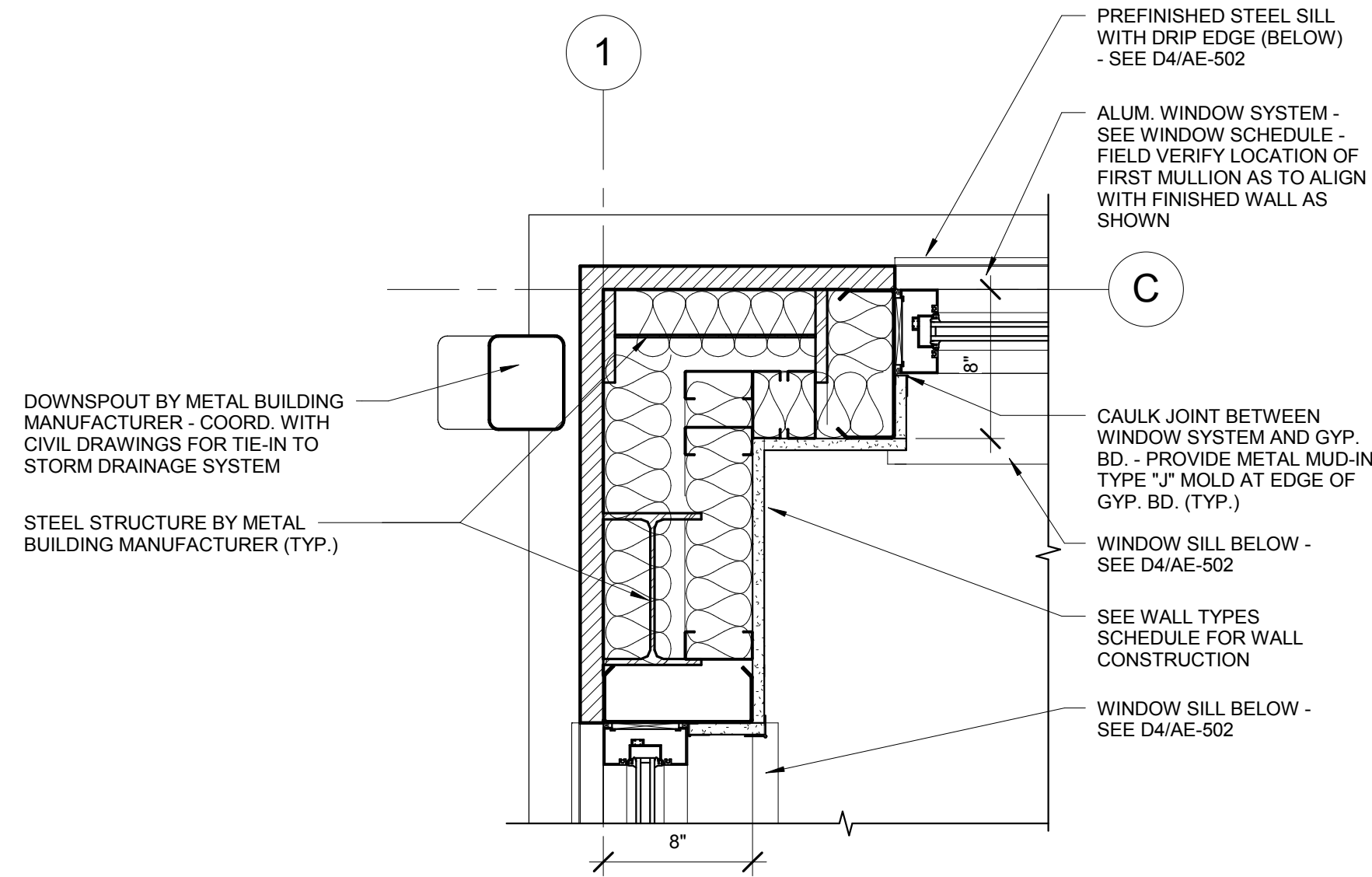
**B4 CARPET ON MILLWORK**  
1 1/2" = 1'-0"



**A1 DETAIL**  
1 1/2" = 1'-0"



**A2 DETAIL**  
1 1/2" = 1'-0"



**A4 DETAIL**  
1 1/2" = 1'-0"



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PROJECT NAME:

**READING FOR THE BLIND  
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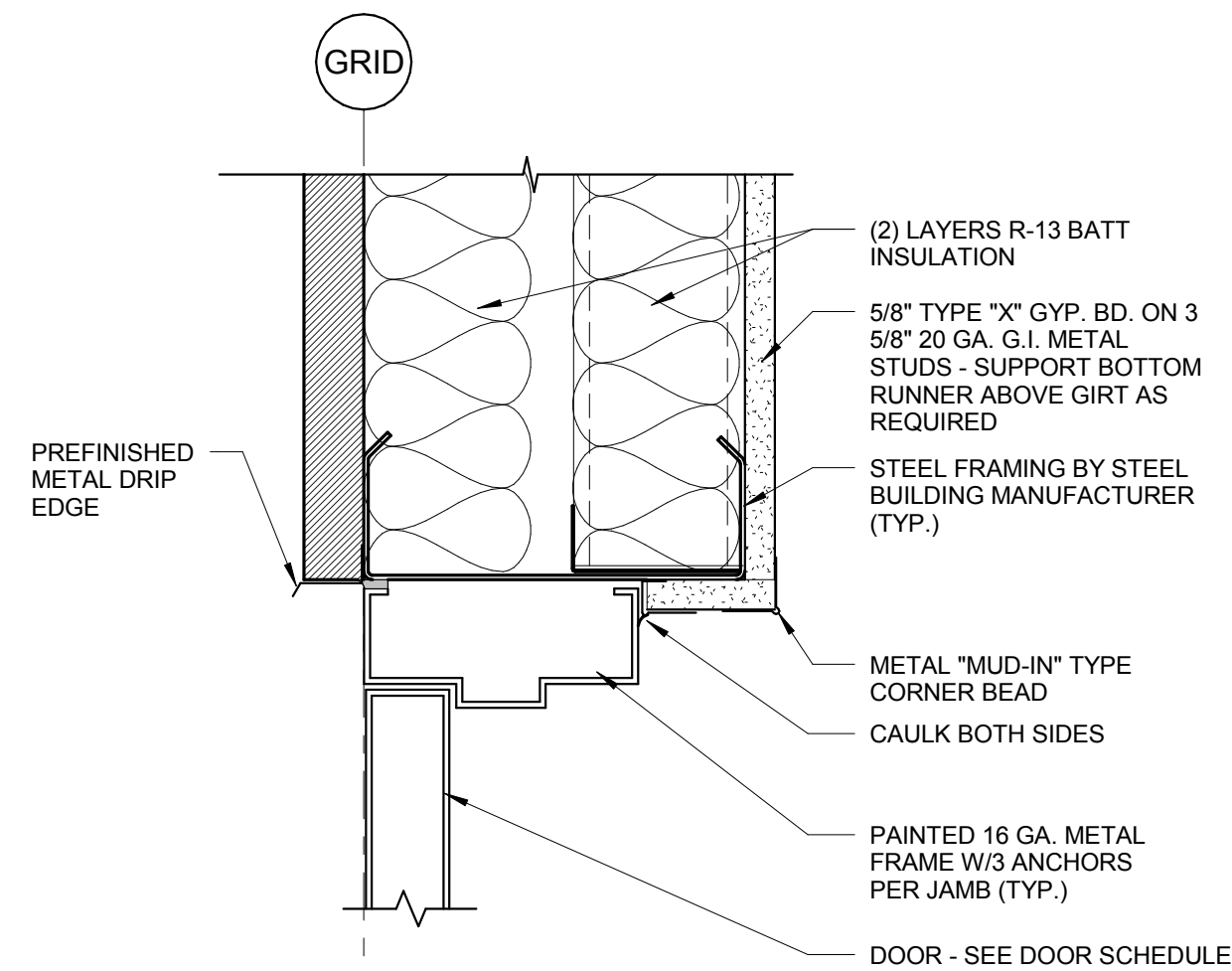
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SHEET NUMBER:

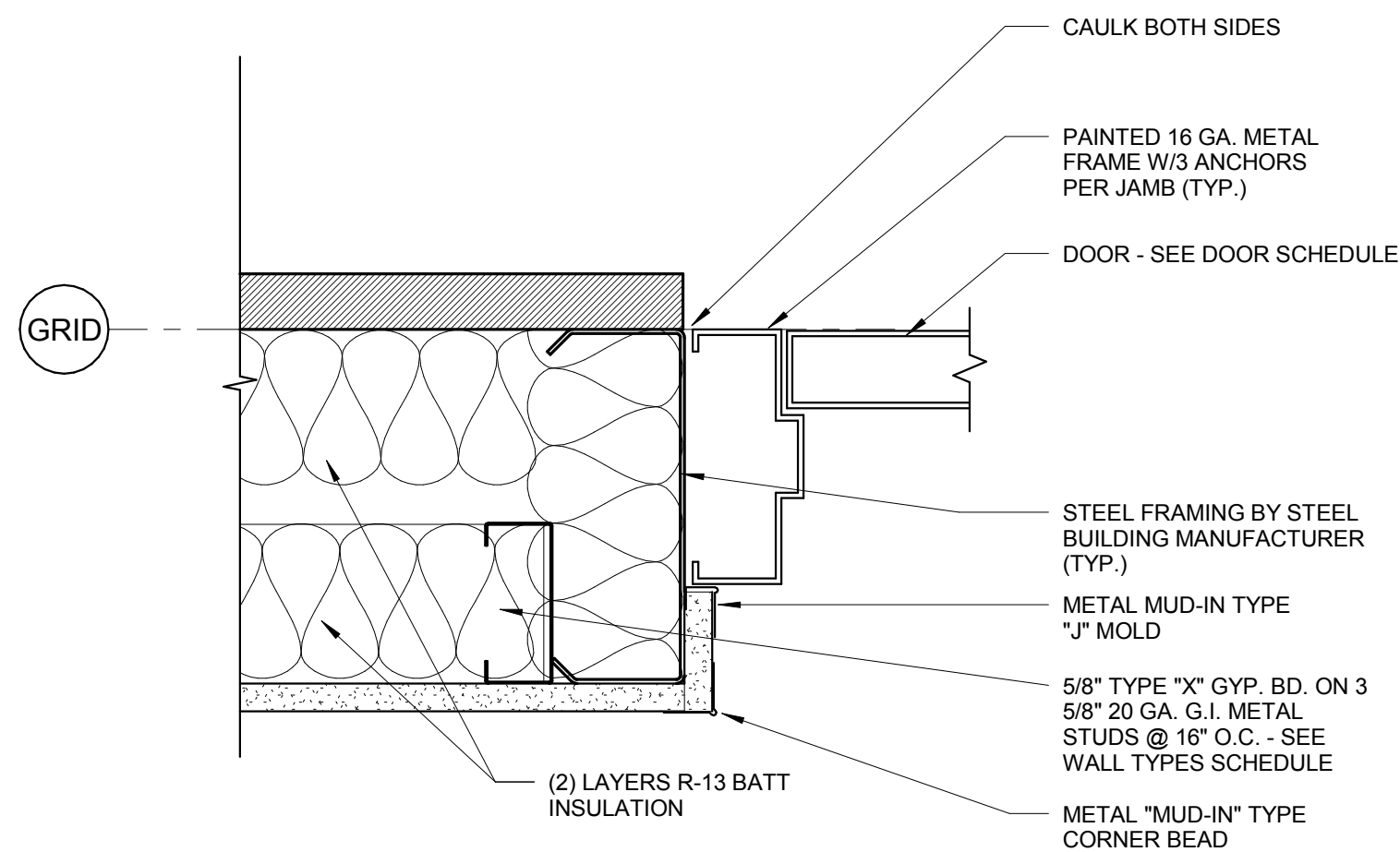
**AE-503**



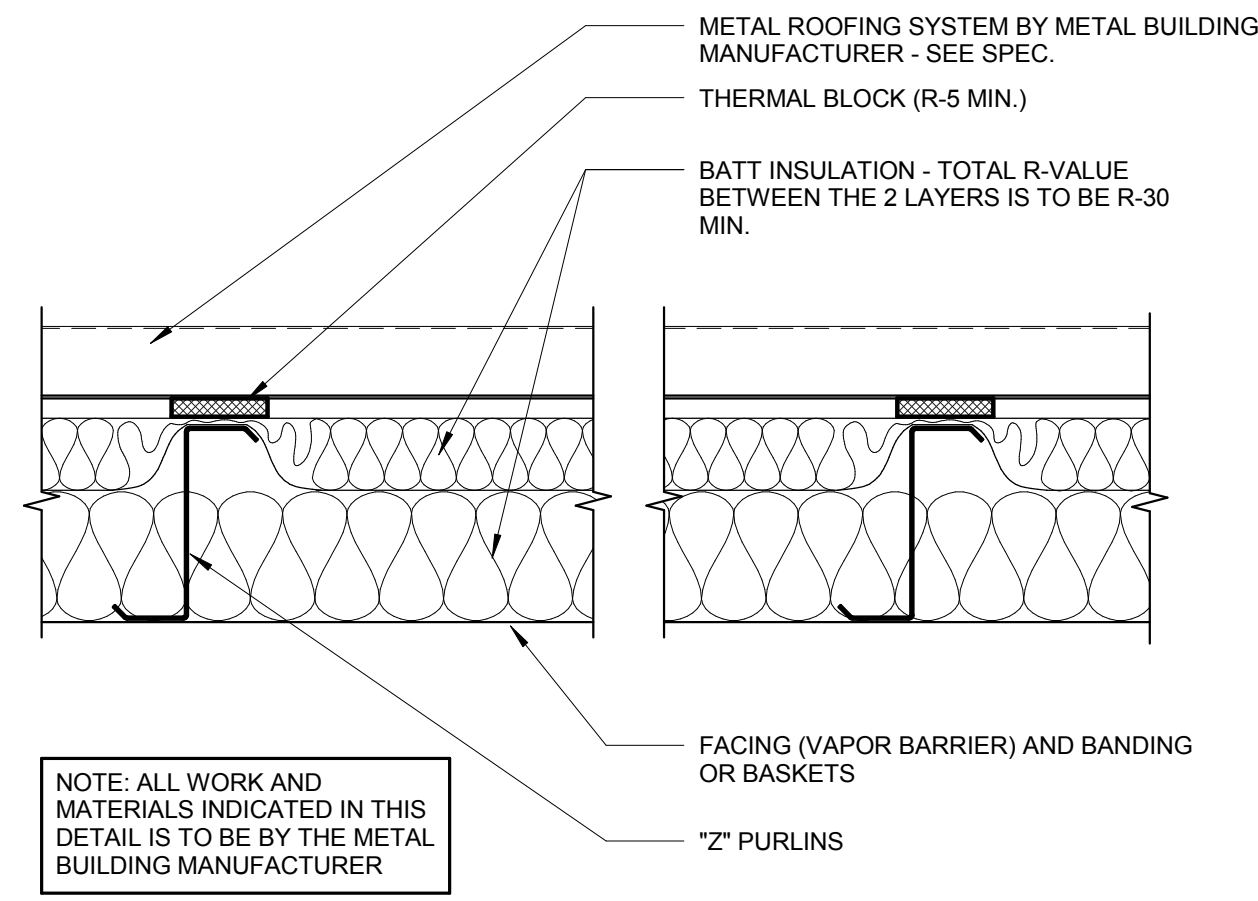
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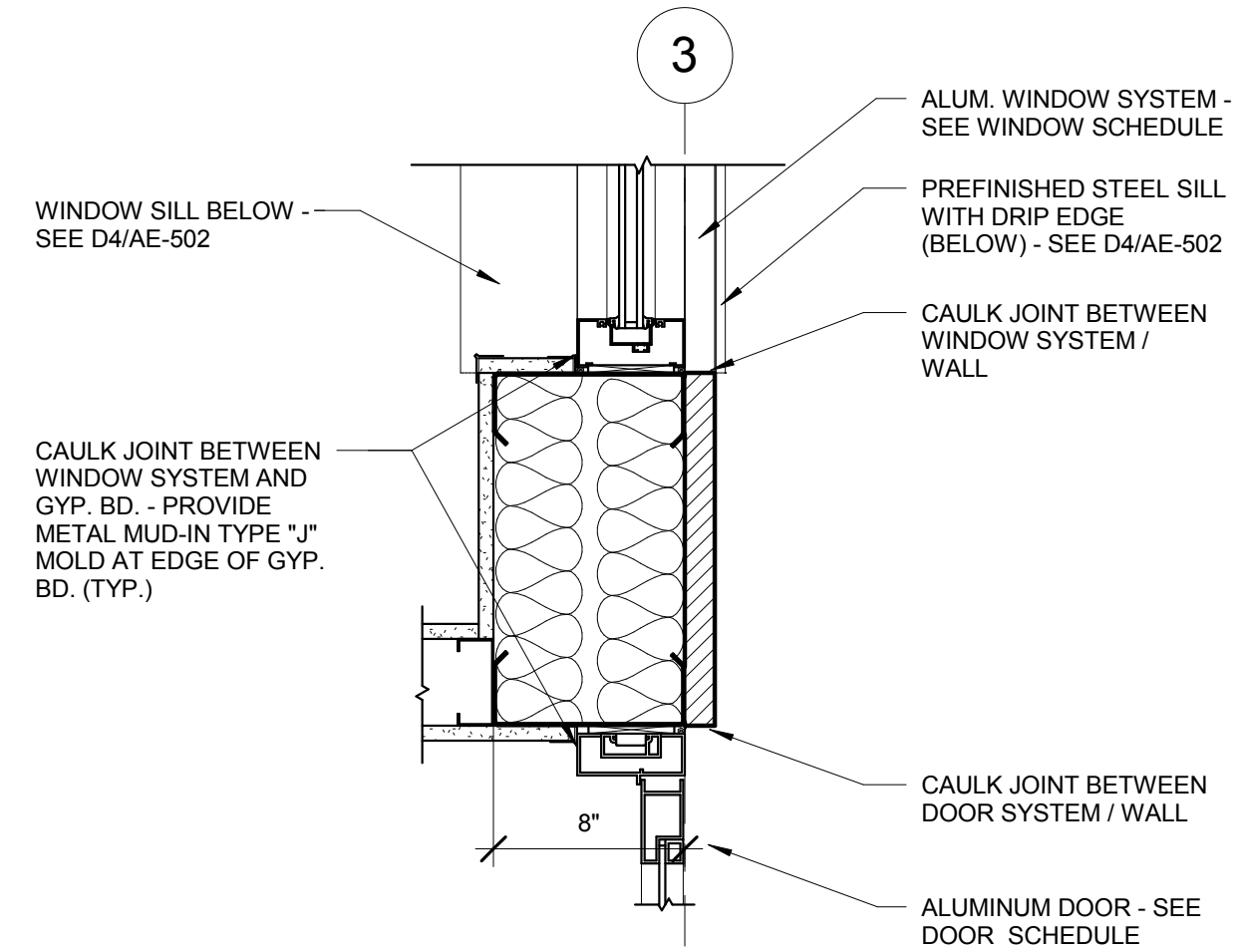
**C1** EXTERIOR DOOR HEAD  
3" = 1'-0"



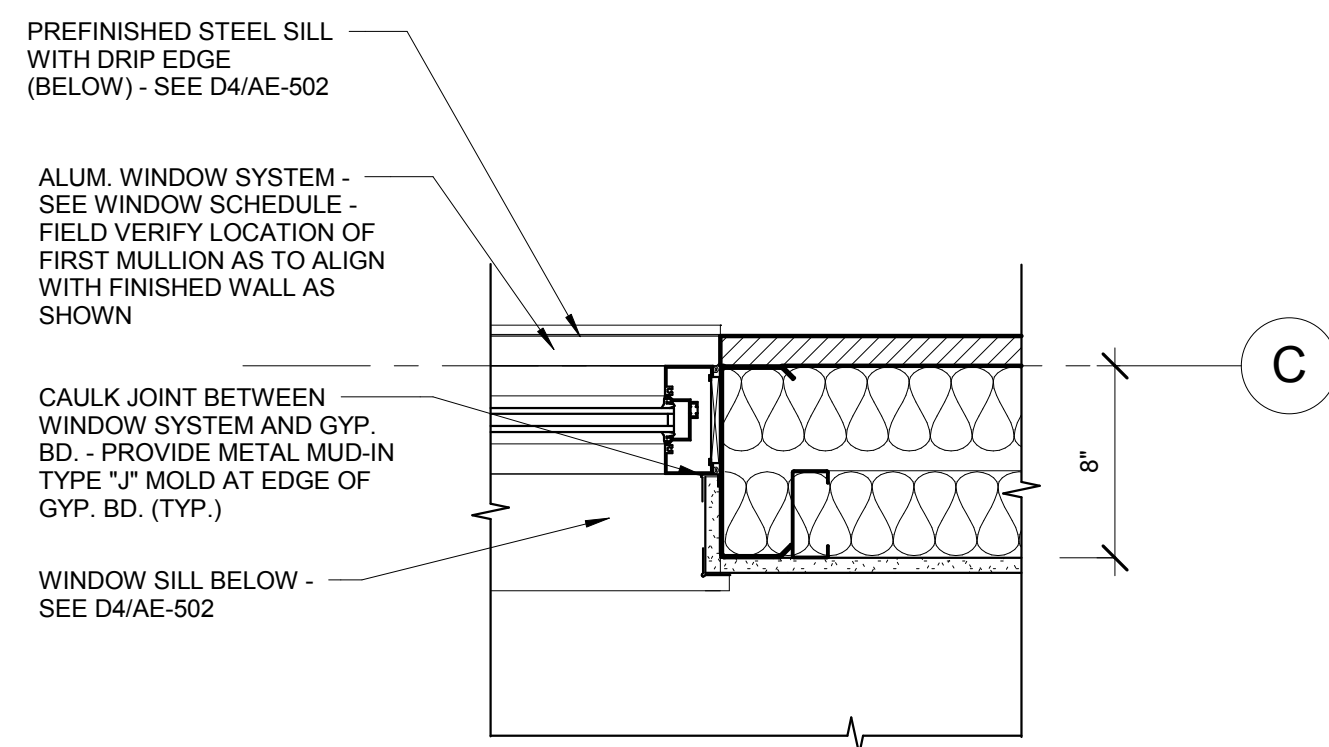
**C2** EXTERIOR DOOR JAMB 01  
3" = 1'-0"



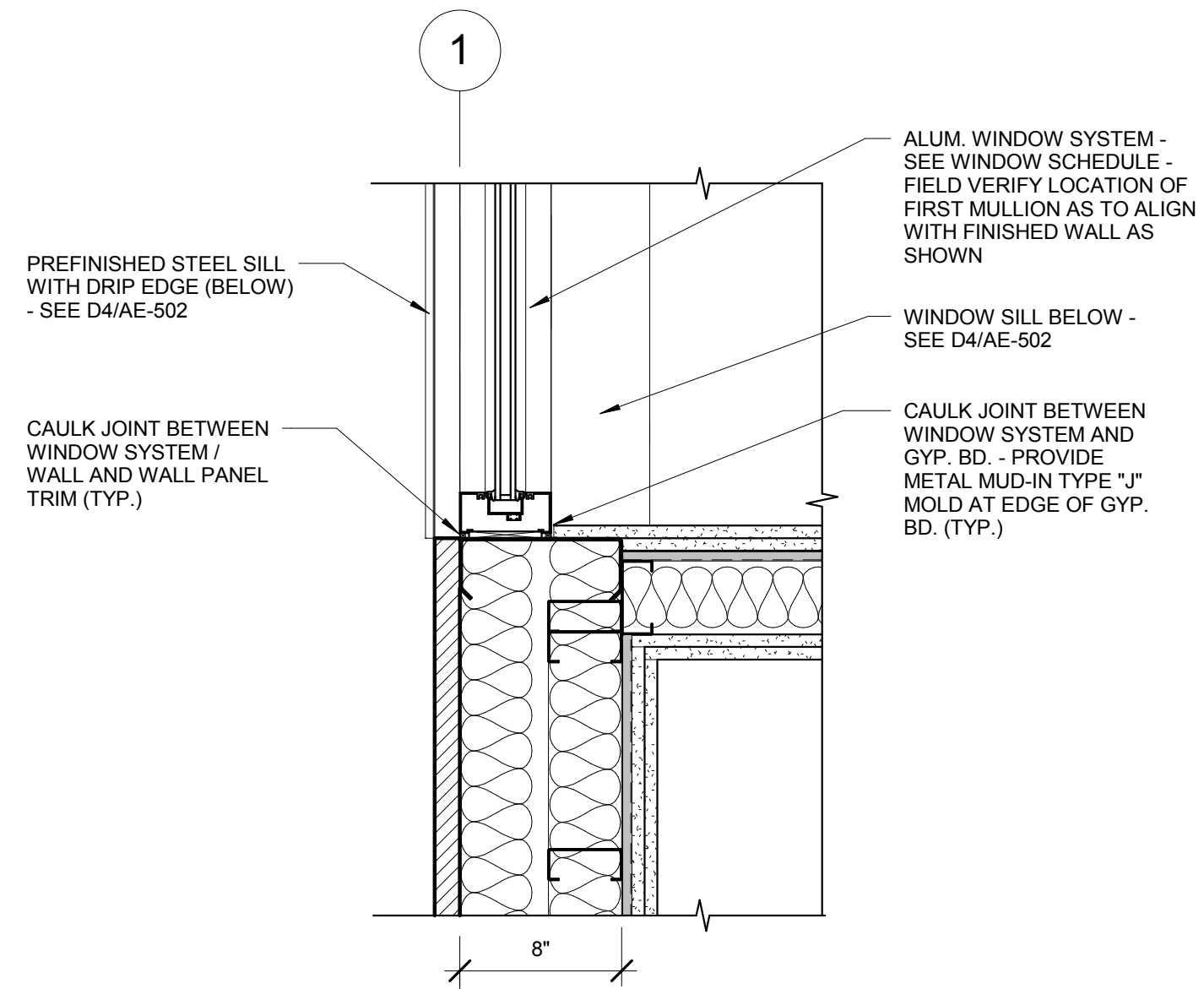
**C3** ROOF INSULATION  
1 1/2" = 1'-0"



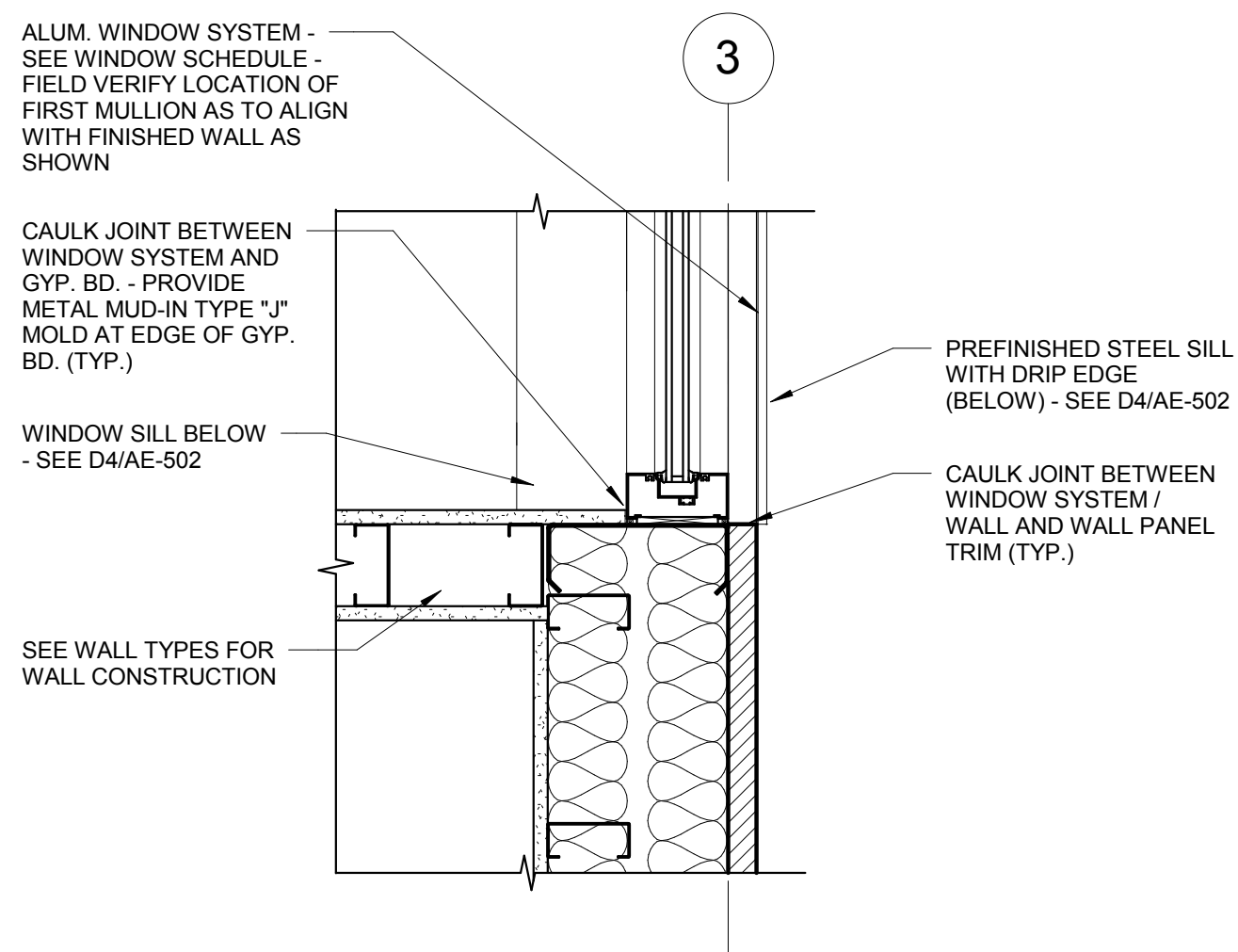
**C4** WALL DETAIL  
1 1/2" = 1'-0"



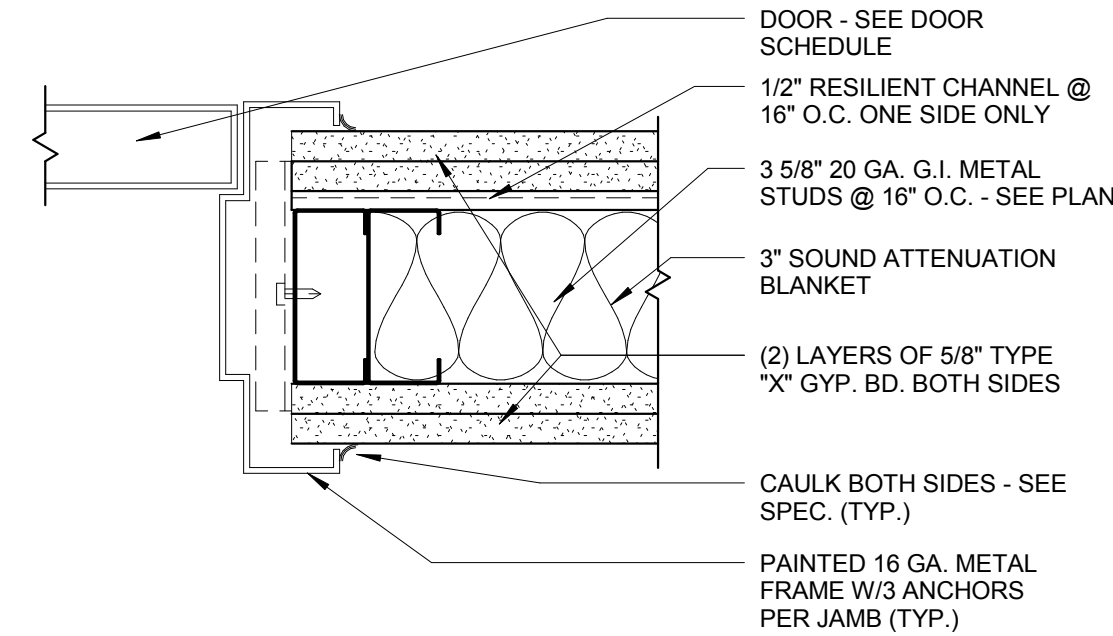
**A1** WALL DETAIL  
1 1/2" = 1'-0"



**A2** ARCHITECTURAL COLUMN DETAIL  
1 1/2" = 1'-0"



**A4** WALL DETAIL  
1 1/2" = 1'-0"



**A5** DOOR JAMB DETAIL  
3" = 1'-0"



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AE-504



\* NOTE THAT THERE IS NO DOOR #106 IN THIS PROJECT



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**SMD**  
ENGINEERING, PLLC

PROJECT NAME:

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[illegible]

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SPE PROJECT #:	09-12
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SHEET TITLE:

DOOR 2 FINISH

## DOOR & FINISH

## SCHEDULES

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SHEET NUMBER:

AG 601

AE-601

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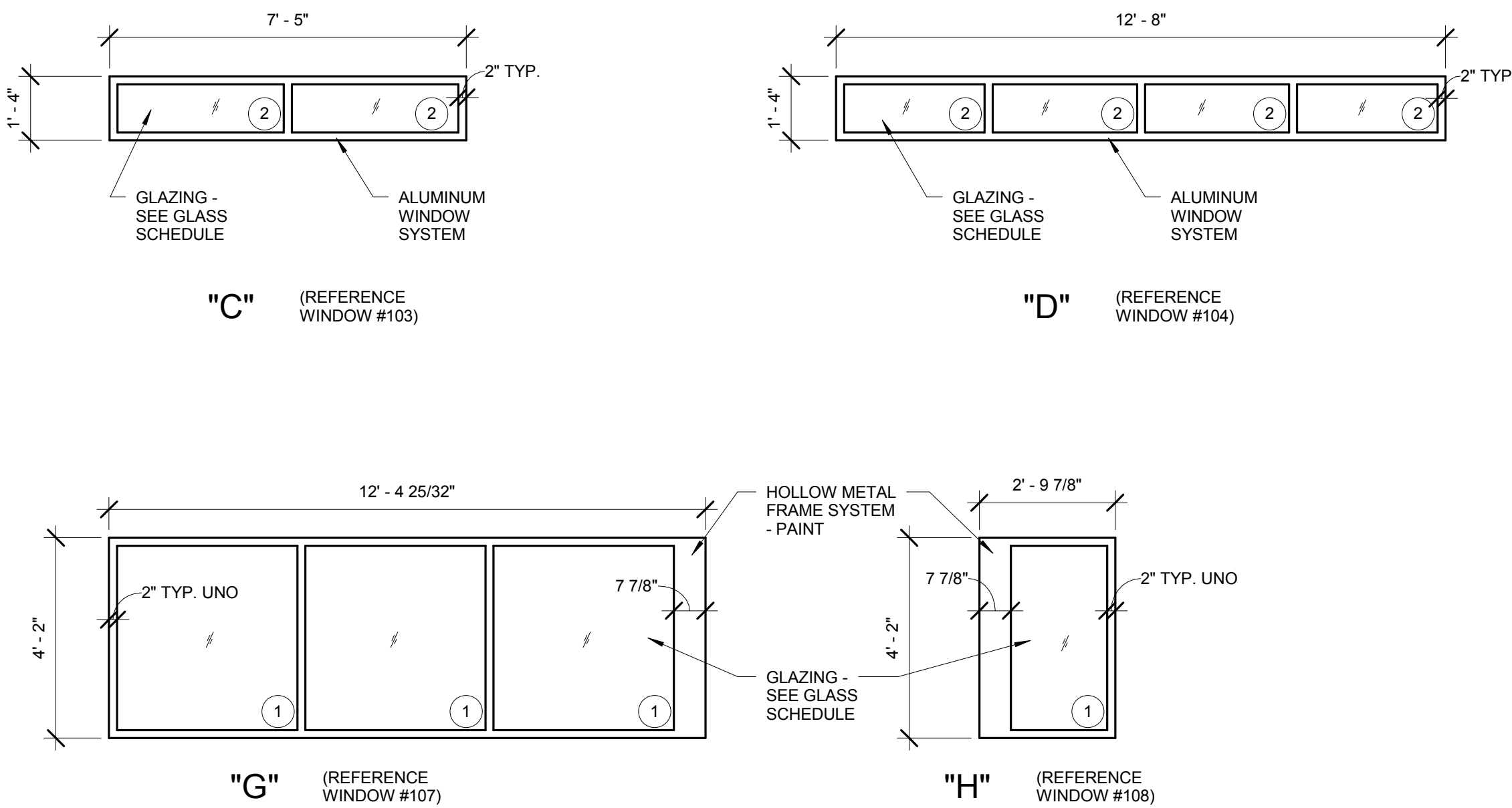
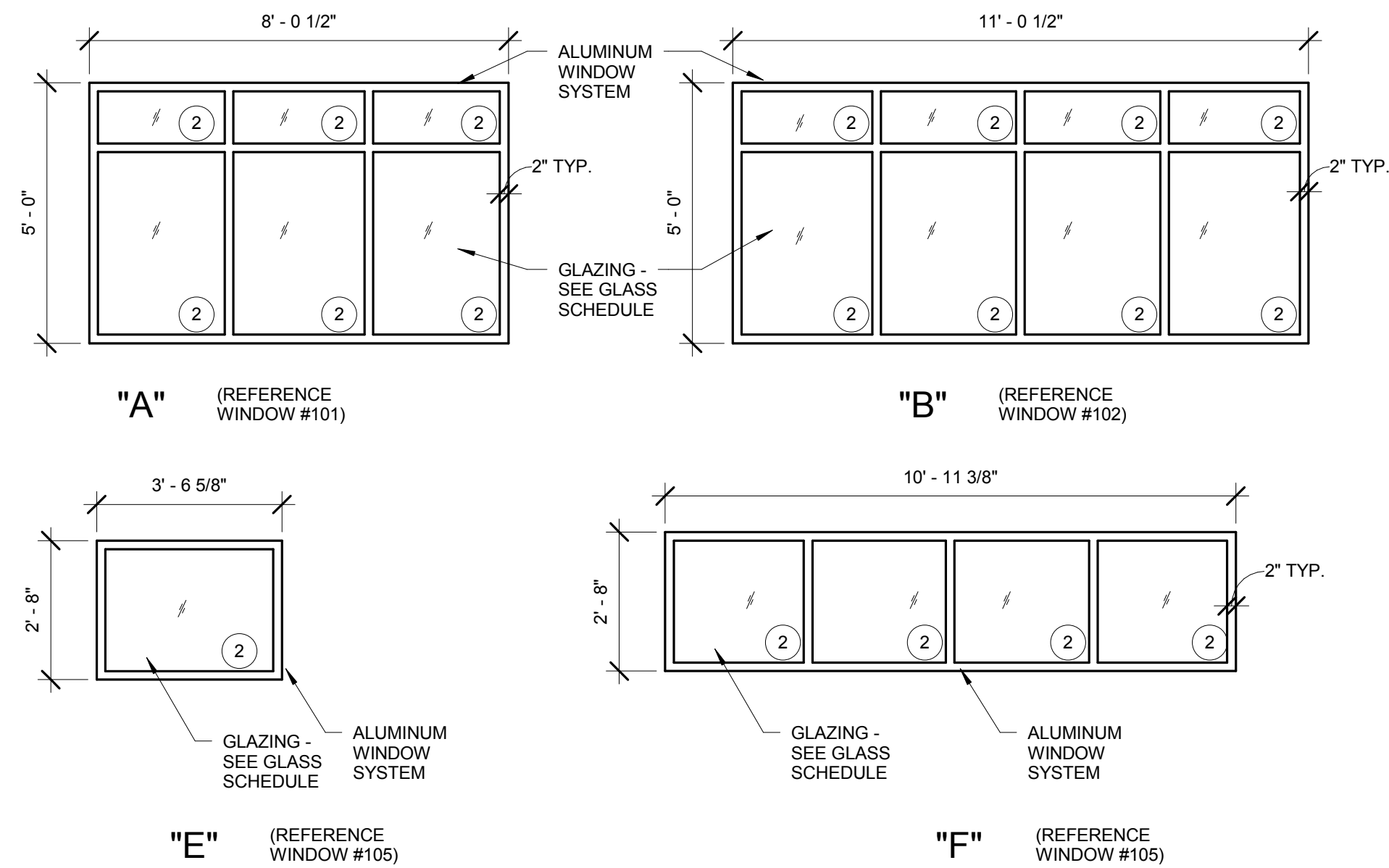


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## WINDOW SCHEDULE

\* FIELD VERIFY ALL DIMENSIONS \*

MARK #	WINDOW FRAME										GLAZING	OPERABLE	REMARKS
	SIZE (R.O.)			TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB(R) DETAIL	JAMB(L) DETAIL	SILL DETAIL			
	WIDTH	HGT	THK										
101	8'-0 1/2"	5'-0"	4 1/2"	A	ALUMINUM	BRONZE ANODIZED	D3/AE-502	A2/AE-503	C4/AE-504 SIM.	D4/AE-502	SEE TYPES	NO	
102	11'-0 1/2"	5'-0"	4 1/2"	B	ALUMINUM	BRONZE ANODIZED	D3/AE-502	A4/AE-504 SIM.	A4/AE-504	D4/AE-502	SEE TYPES	NO	
103	7'-5" (F.V.)	1'-4"	4 1/2"	C	ALUMINUM	BRONZE ANODIZED	D3/AE-502	A4/AE-503	A1/AE-504	D4/AE-502	SEE TYPES	NO	
104	12'-8" (F.V.)	1'-4"	4 1/2"	D	ALUMINUM	BRONZE ANODIZED	D3/AE-502	A4/AE-504 SIM.	A4/AE-503	D4/AE-502	SEE TYPES	NO	
105	3'-6 5/8"	2'-8"	4 1/2"	E	ALUMINUM	BRONZE ANODIZED	D3/AE-502	A1/AE-503	A4/AE-504 SIM.	D4/AE-502	SEE TYPES	NO	
106	10'-11 3/8"	2'-8"	4 1/2"	F	ALUMINUM	BRONZE ANODIZED	D3/AE-502	A2/AE-504	A1/AE-503	D4/AE-502	SEE TYPES	NO	
107	12'-4 25/32"	4'-2"	6 1/8"	G	HOLLOW METAL	PAINTED	B4/AE-502 SIM.	B3/AE-502	B4/AE-502 SIM.	B4/AE-502 SIM.	SEE TYPES	NO	
108	2'-9 7/8"	4'-2"	6 1/8"	H	HOLLOW METAL	PAINTED	B4/AE-502 SIM.	B4/AE-502	B2/AE-502	B4/AE-502 SIM.	SEE TYPES	NO	



## GLASS SCHEDULE

TYPE 1:	1/4" CLEAR FLOAT GLASS TEMPERED
TYPE 2:	PPG SOLARBAN 60 (2) SOLARBRONZE + CLEAR OR APPROVED EQUAL.
TYPE 3:	PPG SOLARBAN 60 (2) SOLARBRONZE + CLEAR TEMPERED OR APPROVED EQUAL.
TYPE 4:	9/16" LAMINATED / SECURITY GLAZING MADE OF 1/4" & 1/4" CLEAR GLASS WITH INTERLAYER - STC 38 SAFLEX OR APPROVED EQUAL.



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CONSULTANTS:



PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON

REVISIONS: 2

NO. DATE DESCRIPTION

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#1 01/12/2010 DESIGN DEVELOPMENT SUBMITTAL

#2 03/01/2010 100% FINAL REVIEW SET

#3 04/04/2010 BID DOCUMENTS

#4 07/07/2010 BID DOCUMENTS (REDESIGN)

OWNER PROJECT #: 09223080

SPE PROJECT #: 09-12

DRAWN BY: GTE

CHECKED BY: SPE

DESIGNED BY: SPE

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SHEET TITLE:

WINDOW  
SCHEDULE &  
WALL TYPES

SHEET NUMBER:

AE-602

## WALL TYPES LEGEND

MARK	DESIGNATION	DESCRIPTION	SOUND RATING	FIRE RATING	NOMINAL WIDTH	ACTUAL WIDTH
01		3 5/8" 20 ga. metal studs at 16" o.c. with 5/8" type "X" drywall each side (Use water resistant gyp. bd. in lieu of type "X" at all tiled walls)	None	None	5"	4 3/4"
02		3 5/8" 20 ga. metal studs at 16" o.c. with 5/8" drywall one side	None	None	4"	4 1/4"
03	NOT USED	3 5/8" 20 ga. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" drywall both side. Provide 3" sound attenuation blankets between studs	Yes	None	5"	5 3/8"
04		6" 20 ga. metal studs at 16" o.c. 1/2" resilient clips on one side and 5/8" drywall on both sides. Provide 3" sound attenuation blankets between studs.	Yes	None	8"	7 3/4"
05	NOT USED	6" 20 ga. metal studs at 16" o.c. with 5/8" drywall on both sides.	None	None	7"	7 1/4"
06		3 5/8" 20 ga. metal studs at 16" o.c. with 5/8" type "X" drywall each side. This wall type is to run to the underside of the roof deck and have gyp. bd. installed full height (to deck) both sides of wall.	None	None	5"	4 3/4"

MARK	DESIGNATION	DESCRIPTION	SOUND RATING	FIRE RATING	NOMINAL WIDTH	ACTUAL WIDTH
07	NOT USED	Prefinished wall panel on 7/8" hat channels (by metal building manufacturer) on 6", 20 ga. metal studs at 16" o.c. - Provide (2) layers of faced R-13 batt insulation at all exterior walls (see building and wall sections)	None	None	8"	7 5/8"
08	NOT USED	Prefinished wall panel on 7/8" hat channels (by metal building manufacturer) on 6", 20 ga. metal studs at 16" o.c. - 5/8" type "X" gyp. bd. on interior surface - Provide (2) layers of faced R-13 batt insulation at all exterior walls (see building and wall sections)	None	None	8"	8 1/4"
09		5/8" Type "X" gyp. bd. on 3-5/8" 20 ga. metal studs at 16" o.c. - 8" girt space - Prefinished metal wall panels at exterior side of girts. - Provide (2) layers of faced R-13 batt insulation at all exterior walls	None	None	10"	9 7/8"
10	NOT USED	Prefinished wall panel (both sides) on 7/8" hat channels both sides (panels and hat channels by metal building manufacturer) on double back to back 3 5/8", 20 ga. metal studs at 16" o.c.	None	None	10 1/2"	10 1/2"

MARK	DESIGNATION	DESCRIPTION	SOUND RATING	FIRE RATING	NOMINAL WIDTH	ACTUAL WIDTH
11		(2) Layers of 5/8" Type "X" gyp. bd. on 1/2" resilient channels on 3-5/8" 20 ga. metal studs at 16" o.c. - 8" girt space - Prefinished metal wall panels at exterior side of girts. - Provide (2) layers of faced R-13 batt insulation at all exterior walls	Yes	None	11"	11"
12		(2) Layers of 5/8" Type "X" gyp. bd. on 1/2" resilient channels on 3 5/8" 20 ga. metal studs at 16" o.c., and (2) layers of 5/8" type "X" gyp. bd. opposite side. Provide 3" sound attenuation blanket between studs (typ.) - Stagger all gyp. bd. joints and caulk perimeter of wall.	Yes	None	6 5/8"	6 5/8"

### IMPORTANT WALL TYPE NOTES

COORDINATE AS REQUIRED

NOTE:  
THE WALL TYPES LEGEND DESCRIBES THE "CORE" WALL TYPE / MATERIALS / WIDTHS ONLY - FINISHES SUCH AS PAINT, CERAMIC TILE, SEALERS ETC. ARE INDICATED IN THE FINISH SCHEDULE - COORDINATE AS REQUIRED.

NOTE:  
WITH THE EXCEPTION OF THE SOUND WALLS AT THE READING ROOMS, ALL SOUND RATED WALLS ARE TO BE RUN UP TO THE DECK ABOVE WITH A SLIP JOINT AT HEAD OF WALL AND HAVE ALL GAPS SEALED WITH SOUND RATED MATERIAL - SEE BUILDING AND WALL SECTIONS FOR INFORMATION ON THE SOUND RATED WALLS AT THE READING ROOMS

NOTE:  
ALL NON-FIRE RATED, NON-STRUCTURAL AND NON-SOUND RATED INTERIOR PARTITIONS AND FURRED WALLS ARE TO RUN TO 6" ABOVE THE CEILING AND BE BRACED TO THE STRUCTURE AT 4'-0" O.C.



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1		2	
ABBREVIATIONS			
ø	ROUND, DIAMETER, PHASE	EWT	ENTERING WATER TEMPERATURE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE, ABSOLUTE	EXH	EXHAUST
ACCU	AIR COOLED CONDENSING UNIT	EXP	EXPANSION
A/C	AIR CONDITIONING	EXT	EXTERIOR
AD	ACCESS DOOR, AREA DRAIN	F	FAHRENHEIT
ADA	AMERICAN DISABILITIES ACT	FC	FLEXIBLE CONNECTION, FORWARD CURVED
AF	AIR FOIL, AIR FILTER	FCO	FLOOR CLEAN OUT
AFF	ABOVE FINISH FLOOR	FCU	FAN COIL UNIT
AHU	AIR HANDLING UNIT	FD	FLOOR DRAIN, FIRE DAMPER
ALT	ALTITUDE, ALTERNATE	FDC	FIRE DEPARTMENT CONNECTION
AMB	AMBIENT	FF	FINISH FLOOR, FINAL FILTER
AMP	AMPERE (AMP, AMPS)	FL	FLOW LINE
AP	ACCESS PANEL	FLEX	FLEXIBLE
APD	AIR PRESSURE DROP	FO	FLAT OVAL
ARCH	ARCHITECT	FP	FIRE PROTECTION
AS	AIR SEPARATOR	FPM	FEET PER MINUTE
AV	ACID VENT, AIR VENT	FS	FLOOR SINK
B	BOILER	FSD	FIRE SMOKE DAMPER
BAL	BALANCE	FSTAT	FREEZESTAT
BAS	BUILDING AUTOMATION SYSTEM	FT	FEET
BBR	BASEBOARD RADIATOR	FTR	FIN TUBE RADIATION
BDD	BACKDRAFT DAMPER	FURN	FURNACE, FURNISH, FURNITURE
BFP	BACKFLOW PREVENTER	FV	FACE VELOCITY
BFV	BUTTERFLY VALVE	G	GAUGE, NATURAL GAS
BHP	BRAKE HORSEPOWER	GA	GAGE
BI	BACKWARD INCLINED	GAL	GALLON
BOD	BOTTOM OF DUCT	GALV	GALVANIZED
BOP	BOTTOM OF PIPE	GC	GENERAL CONTRACTOR
BT	BATH TUB	GD	GARAGE DRAIN
BTU	BRITISH THERMAL UNIT	GH	GRAVITY HOOD
BTUH	BRITISH THERMAL UNITS/HR	GPM	GALLONS PER MINUTE
BV	BALL VALVE	GT	GREASE TRAP
C	CHILLER	HB	HOSE BIBB
CA	COMPRESSED AIR, COMBUSTION AIR	H/C, HC	HEATING COIL
CAP	CAPACITY	HEPA	HIGH EFFICIENCY PARTICULATE AIR
CAV	CONSTANT AIR VOLUME	HOA	HAND, OFF, AUTO
C/C, CC	COOLING COIL	HP	HORSEPOWER, HEAT PUMP
CD	CONDENSATE DRAIN, CEILING DIFFUSER	HR	HOUR
CFM	CUBIC FEET PER MINUTE	HSTAT	HUMIDISTAT
CFOI	CONTRACTOR FURN., OWNER INSTALLED	HT	HEIGHT
CHW	CHILLER WATER	HVAC	HEATING, VENTILATING, AIR-CONDITIONING
CO	CLEAN OUT, CARBON MONOXIDE	HX	HEAT EXCHANGER
CONC	CONCRETE	IAQ	INDOOR AIR QUALITY
COND	CONDENS(ER),(ING),(ATE),(ATION)	ID	INSIDE DIAMETER
CONT	CONTINUOUS	IE	INVERT ELEVATION
COP	COEFFICIENT OF PERFORMANCE, COPPER	IN	INCH
COTG	CLEANOUT TO GRADE	IN WC	INCHES, WATER COLUMN
CPVC	CHLORINATED POLY VINYL CHLORIDE	INV	INVERT
CT	COOLING TOWER	I/O	INPUT/OUTPUT
CU	CONDENSING UNIT, CUBIC	JS	JANITORS SINK
CV	CONTROL VALVE, CONSTANT VOLUME	KEC	KITCHEN EQUIPMENT CONTRACTOR
CUH	CABINET UNIT HEATER	KW	KILOWATT
CW	CONDENSER WATER, CLOCKWISE	KWH	KILOWATT HOUR
DA	DISCHARGE AIR	LAT	LEAVING AIR TEMPERATURE
dB	DECIBELS	LAV	LAVATORY
DB	DRY BULB TEMPERATURE	LBS	POUNDS
DDC	DIRECT DIGITAL CONTROL	LF	LINEAR FEET
DF	DRINKING FOUNTAIN	LVR	LOUVER
DIA	DIAMETER	LWT	LEAVING WATER TEMPERATURE
DMPR	DAMPER	MA	MEDICAL AIR, MIXED AIR
DP	DEWPOINT, DIFFERENTIAL PRESSURE	MAT	MATERIAL, MIXED AIR TEMPERATURE
DR	DRAIN	MAU	MAKE UP AIR HANDLING UNIT
DSN	DOWNSPOUT NOZZLE	MAV	MANUAL AIR VENT
DW	DISHWASHER	MAX	MAXIMUM
DWG	DRAWING	MBH	BTU/HR X 1,000
DWV	DRAIN, WASTE, VENT	MC	MECHANICAL CONTRACTOR
DX	DIRECT EXPANSION	MCC	MOTOR CONTROL CENTER
(E) EXIST	EXISTING	MECH	MECHANICAL
EAT	ENTERING AIR TEMPERATURE	MH	MAN HOLE
EDH	ELECTRIC DUCT HEATER	NA	NOT APPLICABLE
EER	ENERGY EFFICIENCY RATIO	NC	NOISE CRITERIA, NORMALLY CLOSED
EF	EXHAUST FAN	NIC	NOT IN CONTRACT
EFF	EFFICIENCY	NO	NORMALLY OPEN, NITROUS OXIDE
EL, ELEV	ELEVATION	NO.	NUMBER
EMER	EMERGENCY	NOM	NOMINAL
ENCL	ENCLOSURE	NR	NOISE REDUCTION
ESP	EXTERNAL STATIC PRESSURE	NRC	NOISE REDUCTION COEFFICIENT
ET	EXPANSION TANK	NTS	NOT TO SCALE
EUH	ELECTRIC UNIT HEATER	OA	OUTSIDE AIR
EVAP	EVAPORAT(E),(ING),(ED),(OR)	OBD	OPPOSED BLADE DAMPER
EWB	ENTERING WET BULB	OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
EW	ELECTRIC WATER COOLER	OF/Ci	OWNER FURN./CONTRACTOR INSTALLED
EWH	ELECTRIC WATER HEATER	OF/OI	OWNER FURNISHED/OWNER INSTALLED

3		4	
MECHANICAL LEGEND			
BALL VALVE		DUCT SIZE, (1ST FIGURE, SIDE SHOWN; 2ND FIGURE, OTHER SIDE)	
BUTTERFLY VALVE		DIRECTION OF FLOW	
GATE VALVE		LINED DUCT	
GLOBE VALVE		HIDDEN DUCT	
PLUG VALVE		WYE W/45° ENTRY	
3-WAY VALVE		TEE W/45° ENTRY	
NON-RISING STEM/OS&Y VALVE ACTUATOR		ELBOW W/TURNING VANES	
LEVER VALVE ACTUATOR		HELICAL FLEX DUCT	
ELECTRONIC/PNEUMATIC VALVE ACTUATOR		SUPPLY DUCT SECTION UP/DOWN	
SOLENOID/DIAPHRAGM VALVE ACTUATOR		RETURN DUCT SECTION UP/DOWN	
CHECK VALVE		EXHAUST DUCT SECTION UP/DOWN	
SPRING CHECK VALVE		SUPPLY DUCT SECTION UP/DOWN	
BALL VALVE W/HOSE END & CAP		ROUND BRANCH	
NEEDLE VALVE		DUCT TRANSITION	
PRESSURE REDUCING VALVE		SPIN-IN W/VOLUME DAMPER	
REDUCED PRESSURE BACKFLOW PREVENTER		FIRE SMOKE DAMPER	
INLINE PUMP		FIRE DAMPER	
PRESSURE & TEMPERATURE RELIEF VALVE		SMOKE DAMPER	
SQUARE HEAD COCK		MOTORIZED DAMPER	
STRAINER, W/BV HOSE END & CAP		GRAVITY BACKDRAFT DAMPER	
CIRCUIT SETTER		MANUAL VOLUME DAMPER	
AUTOMATIC FLOW CONTROL VALVE		SIDE/PLAN ACCESS DOOR	
THERMOMETER/PRESSURE GAGE W/COCK		SUPPLY AIR DEVICE	
TEMPERATURE SENSOR		RETURN AIR DEVICE	
CONCENTRIC/ECCENTRIC REDUCER		EXHAUST AIR DEVICE	
UNION		THERMOSTAT/HUMIDISTAT	
BUSHING/CAP		KEYED NOTE/REVISION	
ELBOW UP/DOWN		WALL SWITCH	
TOP/BOTTOM CONNECTION, 45° OR 90°		EQUIPMENT CALLOUT	
TEE UP/SIDE/DOWN		PLUMBING FIXTURE CALLOUT	
FLOW/PITCH DOWN DIRECTION		DETAIL TAG	
EXPANSION JOINT/FLEX CONNECTOR			
FLOOR OR GRADE CLEANOUT, W/CONC PAD			
WALL CLEANOUT, HOSE BIBB OR WALL HYDRANT			
FLOOR DRAIN/FLOOR SINK			
VENT			
COLD WATER			
HOT WATER			
HOT WATER RETURN			
TEMPERED WATER			
COMPRESSED AIR			
COMPRESSED AIR RETURN			
CONDENSATE DRAIN			
SANITARY SEWER			
SANITARY SEWER BELOW GRADE			
NATURAL GAS			

5	
PROJECT NOTES	
<p>1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH, 2006 INTERNATIONAL BUILDING CODE, 2006 INTERNATIONAL MECHANICAL CODE, 2006 INTERNATIONAL PLUMBING CODE, 2006 INTERNATIONAL FUEL GAS CODE, AND 2006 INTERNATIONAL ENERGY CODE, INCLUDING STATE AND LOCAL AMENDMENTS, SUBJECT TO AUTHORITY HAVING JURISDICTION INTERPRETATION.</p> <p>2. CLOSELY COORDINATE NEW MECHANICAL AND PLUMBING CONSTRUCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST.</p> <p>3. DO NOT SHUT-OFF/PUT OUT SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONNEL.</p> <p>4. PROVIDE SEISMIC RESTRAINT FOR ALL MECHANICAL AND PLUMBING EQUIPMENT AND PIPING IN ACCORDANCE WITH 2006 IBC, IMC, AND IPC. SEISMIC DESIGN CATEGORY "D", SITE CLASS "D", SDS=0.851, SD1=0.536 AND SEISMIC OCCUPANCY CATEGORY 2.</p> <p>5. CONTRACTOR SHALL PROVIDE 1 YEAR STANDARD WARRANTY.</p> <p>6. SUBMIT ALL VALVES, FITTINGS, PIPE MATERIALS, INSULATION, AND ACCESSORIES TO BE USED IN PROJECT. SUBMIT ALL EQUIPMENT AND ACCESSORIES LISTED ON MECHANICAL SCHEDULE SHEET. SUBMIT SEVEN COPIES IN 3 RING BINDER TO ARCHITECT FOR REVIEW AND APPROVAL BY ENGINEER. DO NOT PLACE ORDER UNTIL ENGINEER HAS REVIEWED AND APPROVED SUBMITTAL.</p> <p>7. RECORD ALL FIELD CHANGES ON RECORD DRAWINGS AND SUBMIT TO ENGINEER DURING PROJECT CLOSE OUT.</p> <p>8. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.</p> <p>9. PROJECT ELEVATION IS 5000 FT FOR EQUIPMENT SELECTION.</p> <p>10. PROVIDE ALL DUCT IN ACCORDANCE WITH SMACNA STANDARDS FOR 2" WC PRESSURE CLASS. SEAL ALL TRANSVERSE AND LONGITUDINAL SEAMS AND JOINTS EXCEPT FOR WELDED OR LOCKING-TYPE LONGITUDINAL JOINTS.</p> <p>12. LINE ALL EXTERIOR RECTANGULAR DUCT WITH 2" THICK INSULATED DUCT LINER. GLUED AND STICK PINNED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.</p> <p>13. LINE ALL RECTANGULAR DUCT WITH 1" THICK INSULATED DUCT LINER. GLUED AND STICK PINNED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.</p> <p>14. INSULATE ALL SUPPLY ROUND DUCTWORK ABOVE CEILINGS WITH 1-1/2" THICK 1.5 LBS/CF FIBERGLASS DUCT WRAP. TRIM AND SEAL JOINTS.</p> <p>15. PROVIDE 1-1/2" THICK INSULATED FLEXIBLE DUCT AS INDICATED ON DRAWINGS CONFORMING TO NFPA 90A, UL 181-CLASS 0 OR 1 STANDARDS. INSTALL FLEXIBLE DUCT AS SHORT AS POSSIBLE WITHOUT KINKS.</p> <p>16. LOCATE DIFFUSERS AND RETURN GRILLES ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLANS.</p> <p>17. DUCT DIMENSIONS SHOWN ARE INSIDE FLOW DIMENSIONS.</p> <p>18. PROVIDE TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW AND APPROVAL.</p> <p>19. INSULATE ALL HEATING WATER PIPE WITH 1" INSULATION WITH ASJ.</p> <p>20. PROVIDE ISOLATION VALVES SERVING EACH PIECE OF EQUIPMENT.</p> <p>21. DISINFECT NEW DOMESTIC WATER PIPING. SUBMIT DISINFECTION REPORT TO ENGINEER FOR REVIEW.</p> <p>22. ALL WASTE AND VENT IS 2" UNLESS OTHERWISE NOTED.</p> <p>23. ALL WASTE AND VENT PIPE SHALL BE SCHEDULE 40 ABS, SCHEDULE 40 PVC, OR SERVICE WEIGHT CAST IRON.</p> <p>24. PROVIDE TRAP PRIMERS AND CONNECT TO ALL FLOOR DRAINS, ALL FLOOR SINKS, AND ALL STANDPIPES THAT DO NOT HAVE A RELIABLE SOURCE TO MAINTAIN TRAP SEAL.</p> <p>25. ALL WATER PIPE SHALL BE TYPE "L" COPPER.</p> <p>26. T-DRILL FITTINGS SHALL NOT BE USED IN THIS PROJECT.</p> <p>27. INSULATE ALL HOT WATER AND RETURN PIPE WITH 1" INSULATION WITH ASJ. INSULATE ALL COLD WATER PIPE WITH 1/2" INSULATION WITH ASJ.</p> <p>28. ALL "BRANCH" HOT AND COLD WATER LINES FEEDING ONE OR TWO SINKS OR LAV'S ARE 1/2", DROP IN WALL AND DISTRIBUTE TO SINKS OR LAV'S AS REQ'D. PROVIDE INDIVIDUAL STOPS FOR EACH SINK OR LAV.</p> <p>29. ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 STEEL PIPE WITH SCREWED FITTINGS FOR 4 OZ SERVICE.</p> <p>30. PROVIDE "DIRT LEG" AHEAD OF EACH PIECE OF FUEL FIRED EQUIPMENT.</p>	
SHEET LIST	
MH001 - MECHANICAL LEGEND AND NOTES MH101 - MECHANICAL FLOOR PLAN MH501 - MECHANICAL DETAILS MH601 - MECHANICAL SCHEDULES PP101 - PLUMBING FLOOR PLAN PP501 - PLUMBING DETAILS PP601 - PLUMBING SCHEDULES PP701 - PLUMBING ISOMETRIC	

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PROJECT NAME:

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1	03/01/10	FINAL 100% REVIEW
2	04/04/10	BID DOCUMENTS
3	07/07/10	BID DOCUMENTS (REDESIGN)

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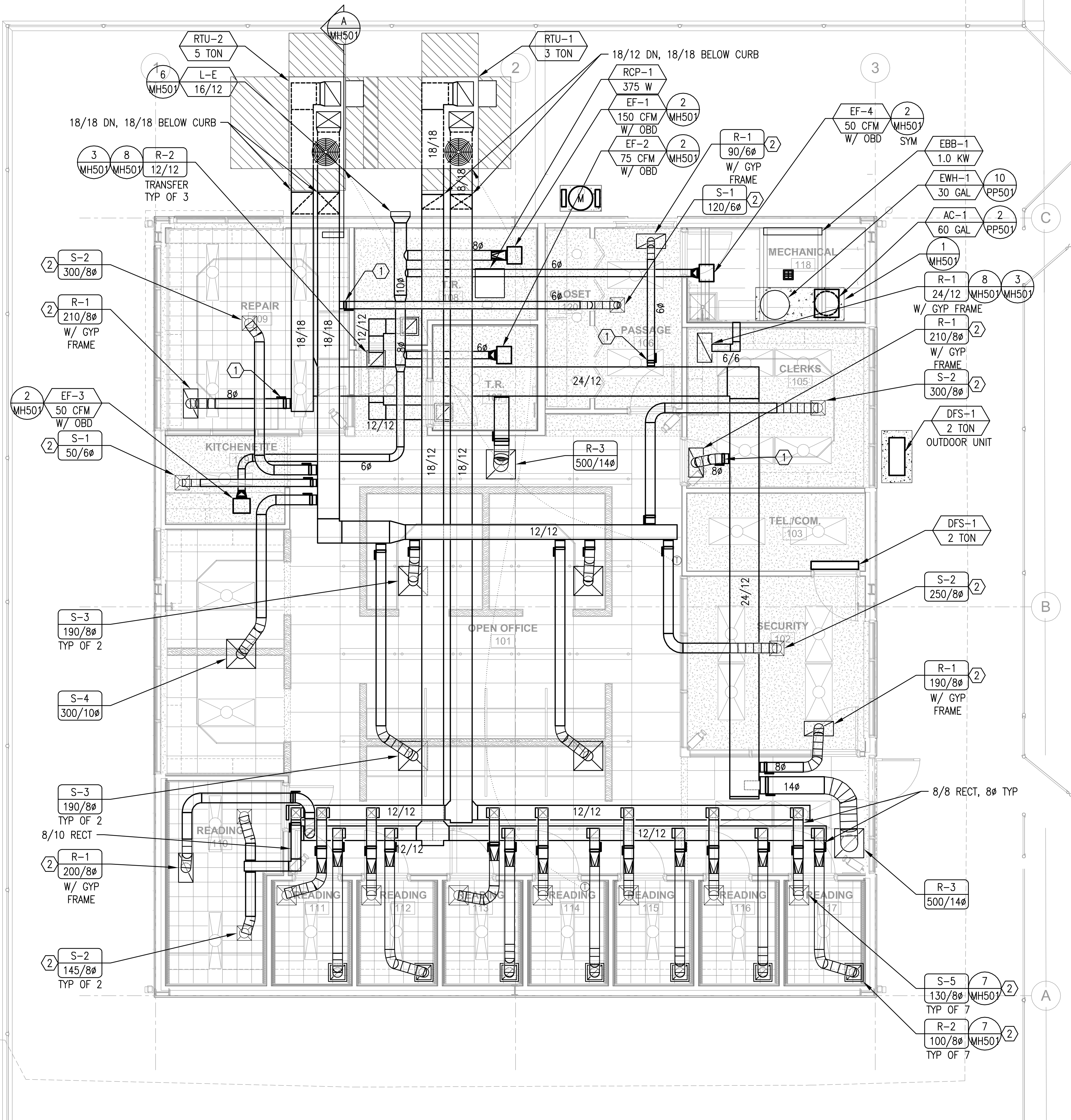
MECHANICAL  
LEGEND AND  
NOTES

SHEET NUMBER:

MH001



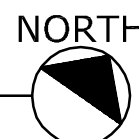
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1  
MH101

# MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



## TYPICAL SHEET METAL DETAILS

- 3 RETURN AIR GRILLE PLENUM
- 4 45° SMACNA ENTRY DUCT TAKE OFF
- 5 FLEX DUCT CONNECTION

## SHEET NOTES

- AFTER TESTING AND BALANCING, MARK LOCATION OF ALL BALANCING DAMPERS AND REMOVE ALL BALANCING DAMPER HANDLES AND GIVE TO OWNER.

## KEYED NOTES

- 1 GEAR DRIVEN REMOTE BALANCING DAMPER.
- 2 DRIVE SECURITY SCREWS INTO FRAMING BEHIND AIR DEVICES.

ARCHITECT'S INFORMATION



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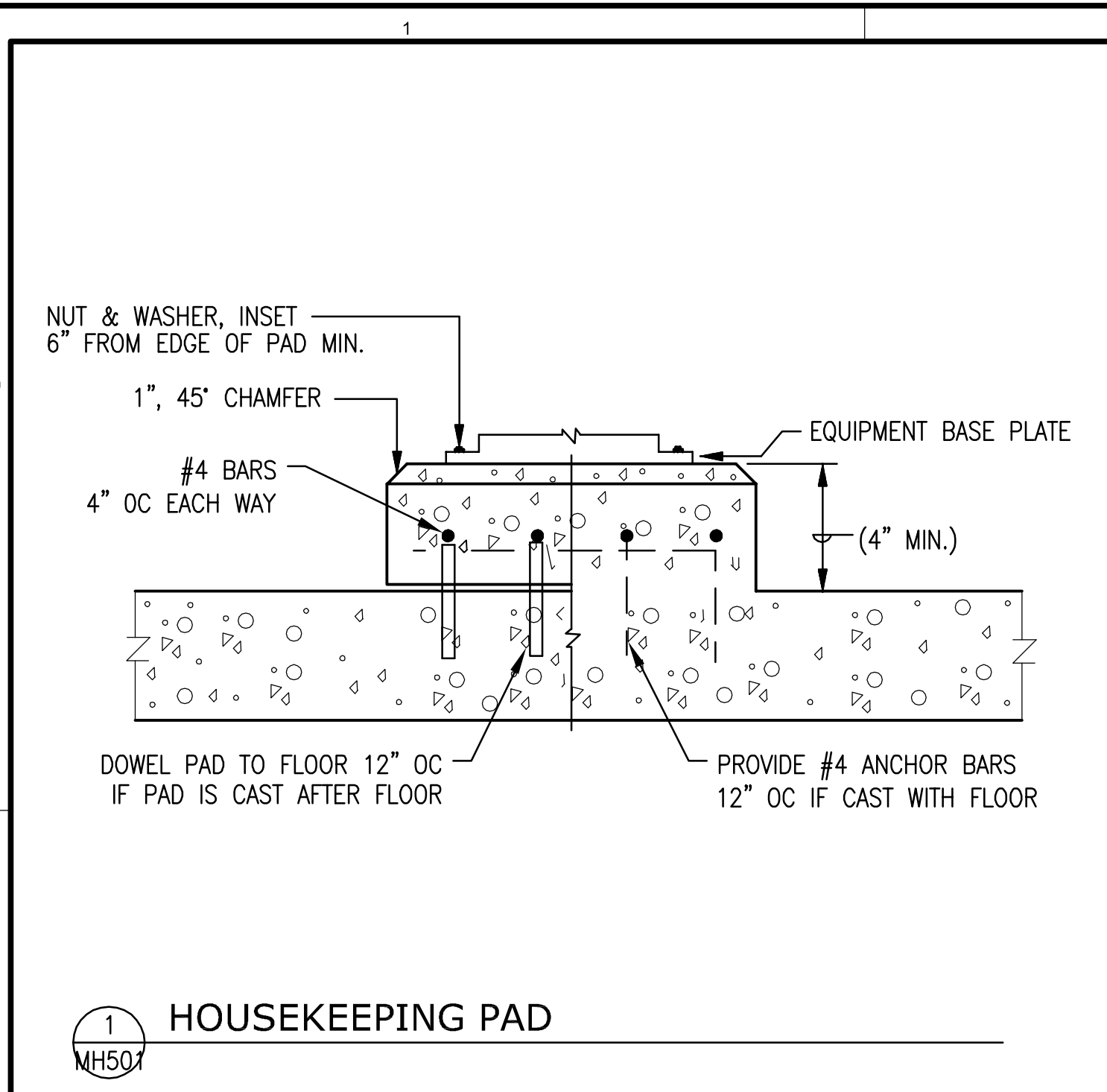
MECHANICAL  
FLOOR PLAN

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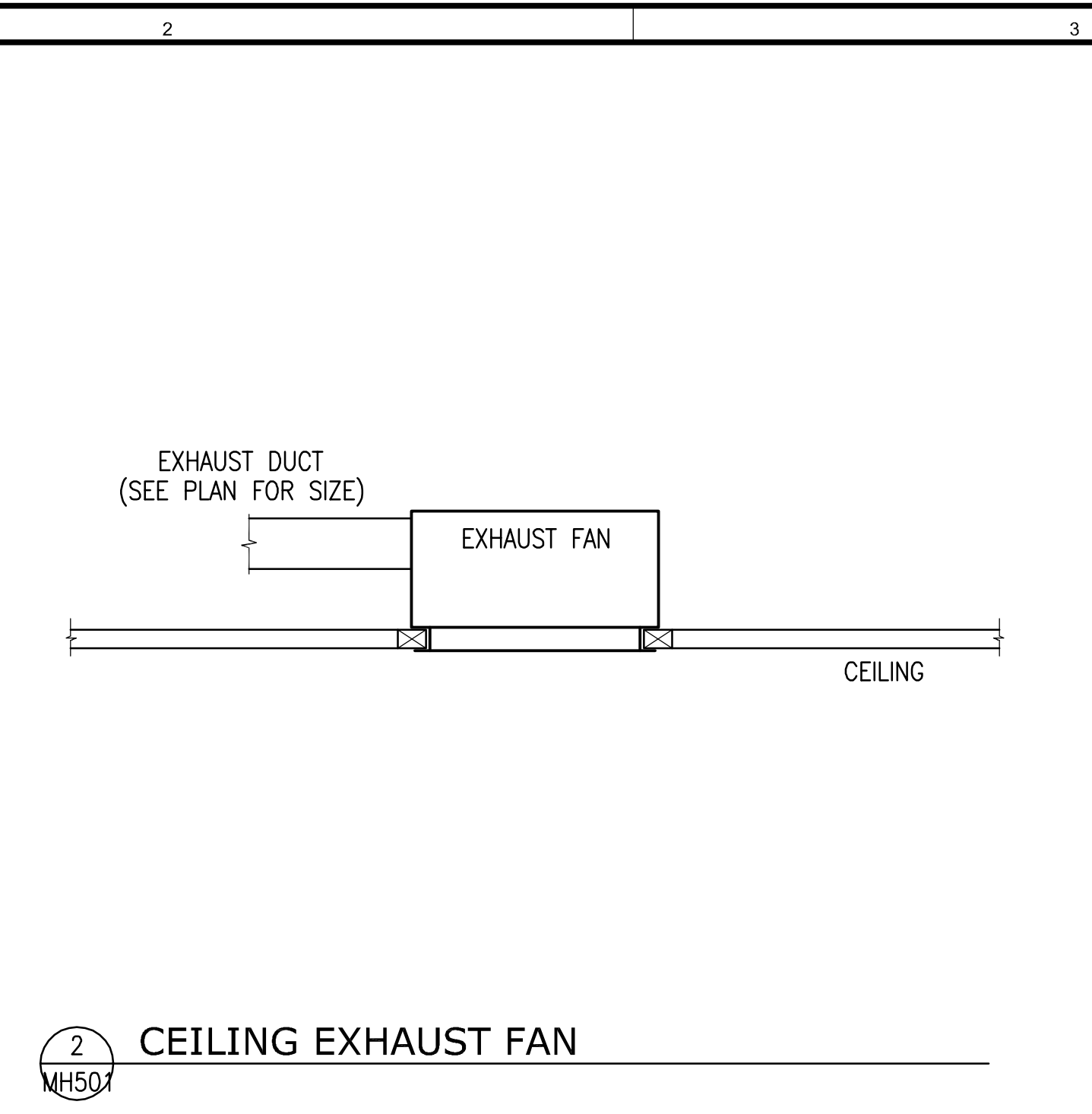
MH101



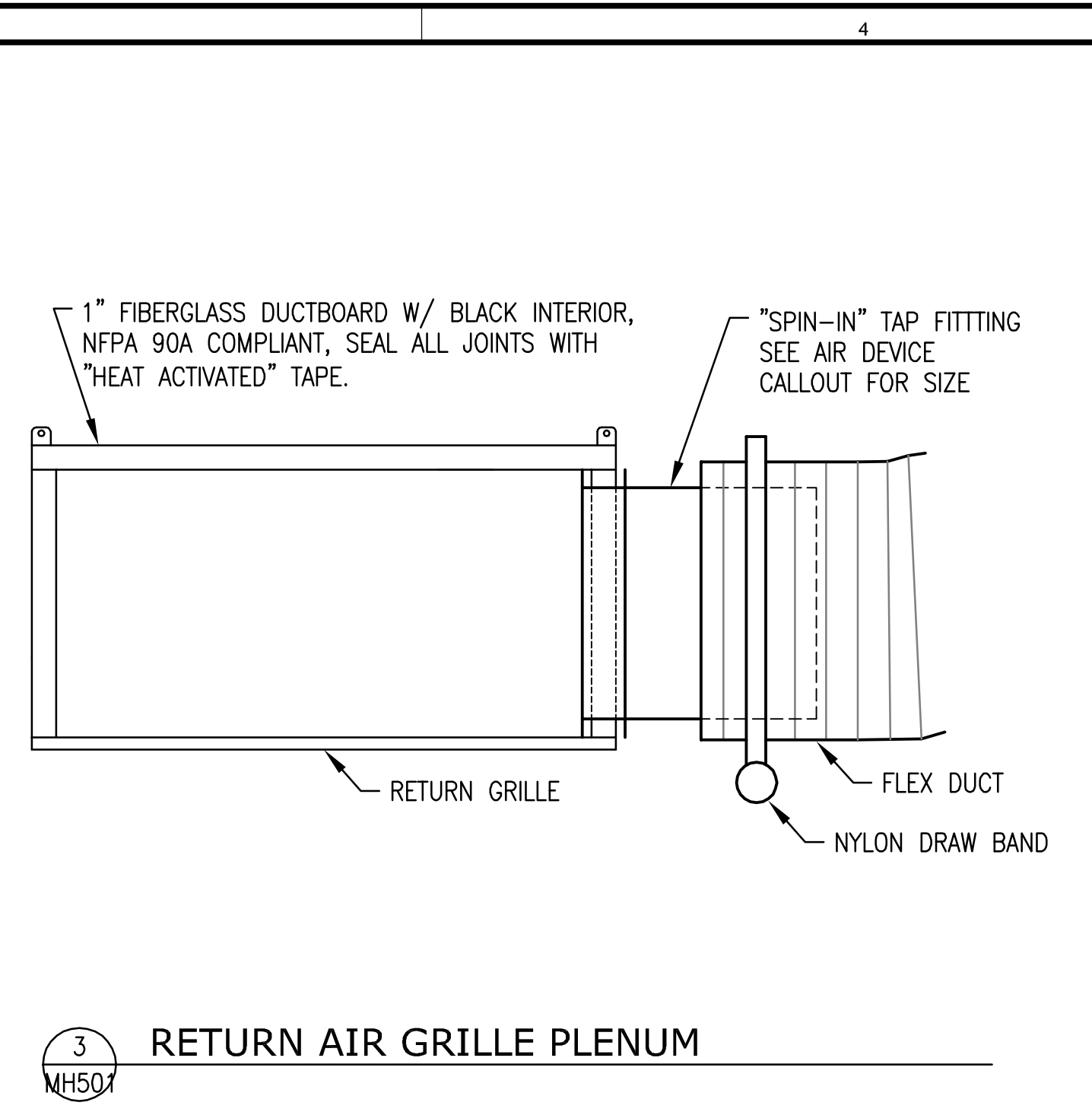
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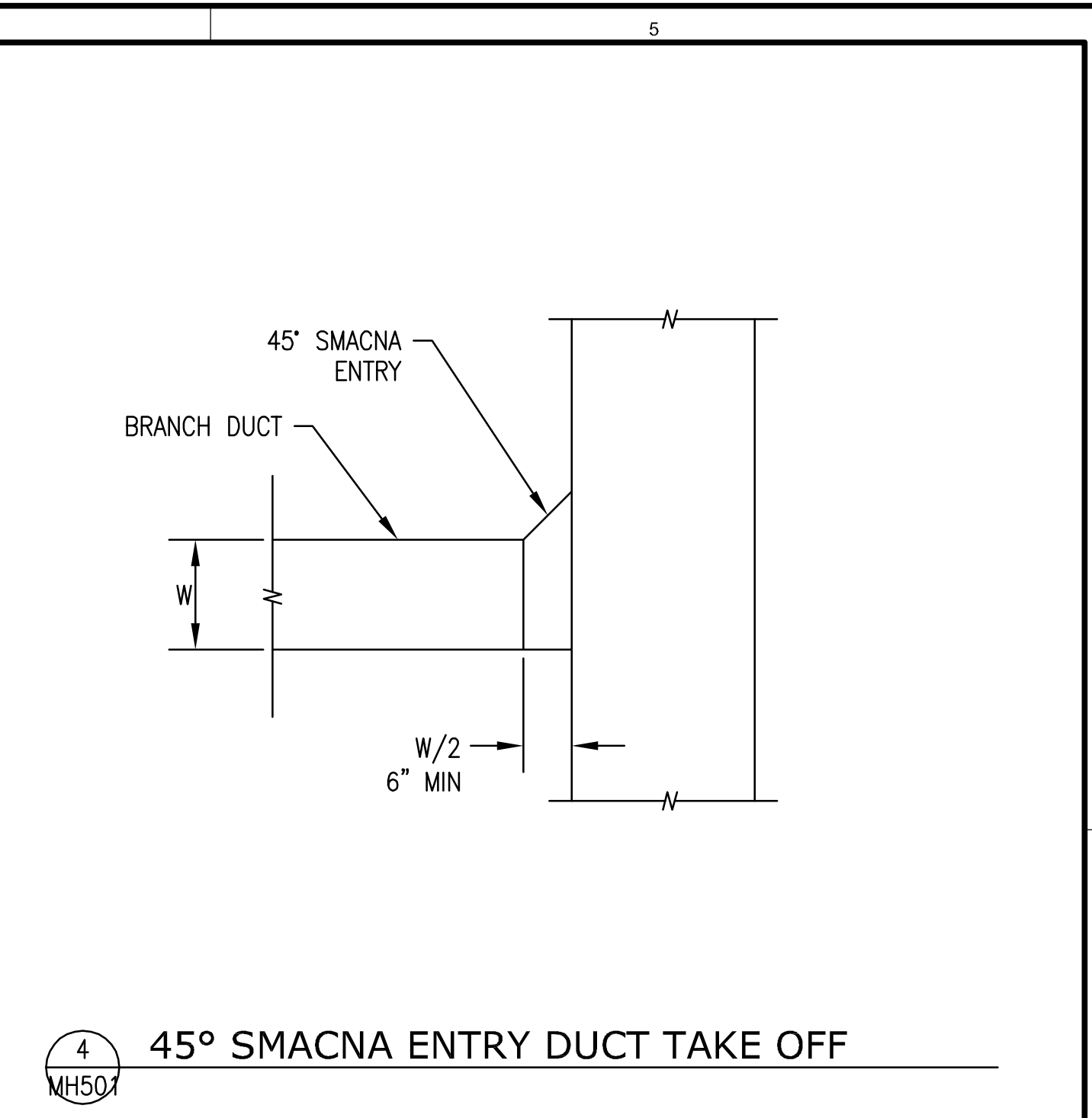
1 HOUSEKEEPING PAD  
MH501



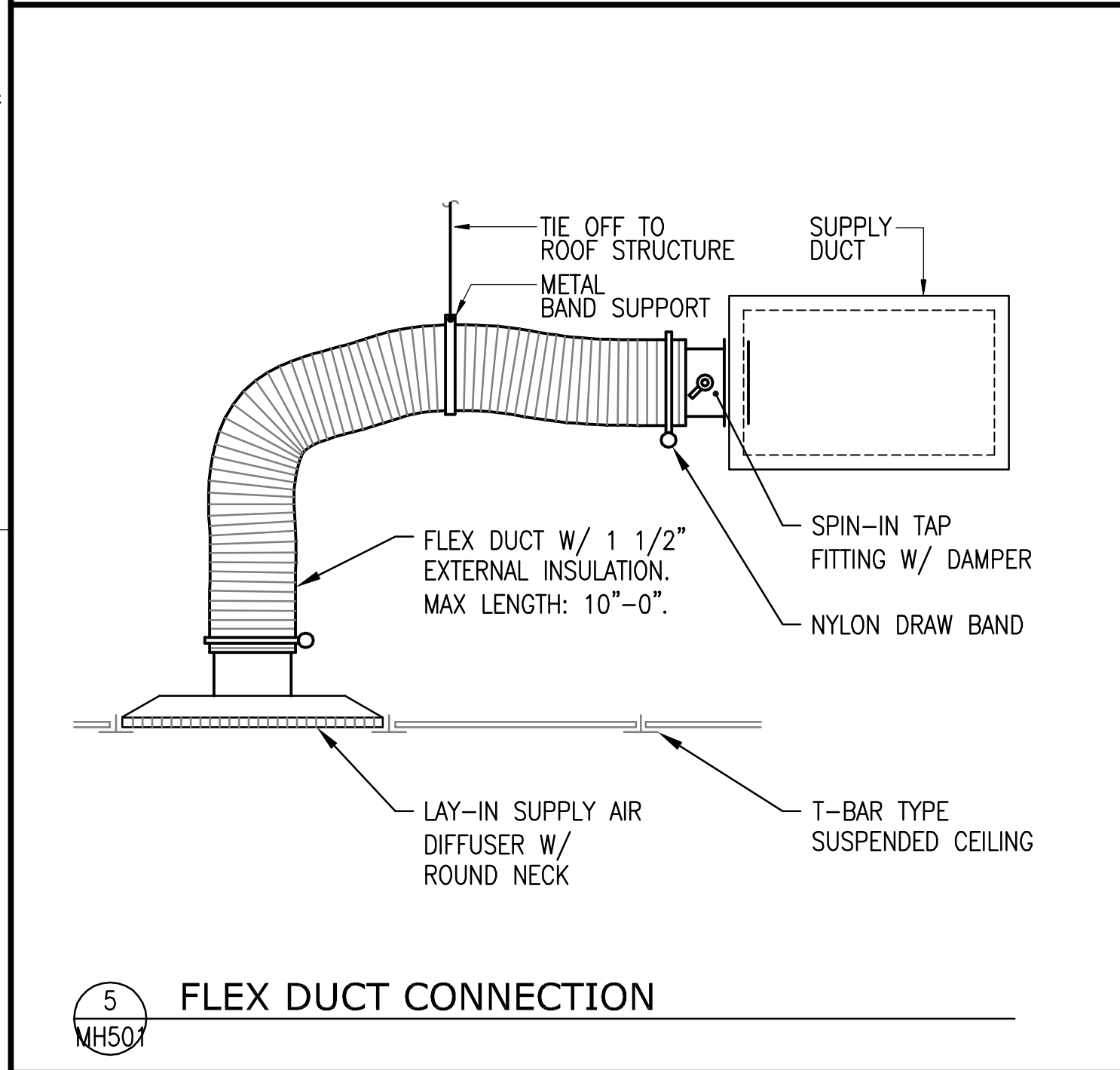
2 CEILING EXHAUST FAN  
MH501



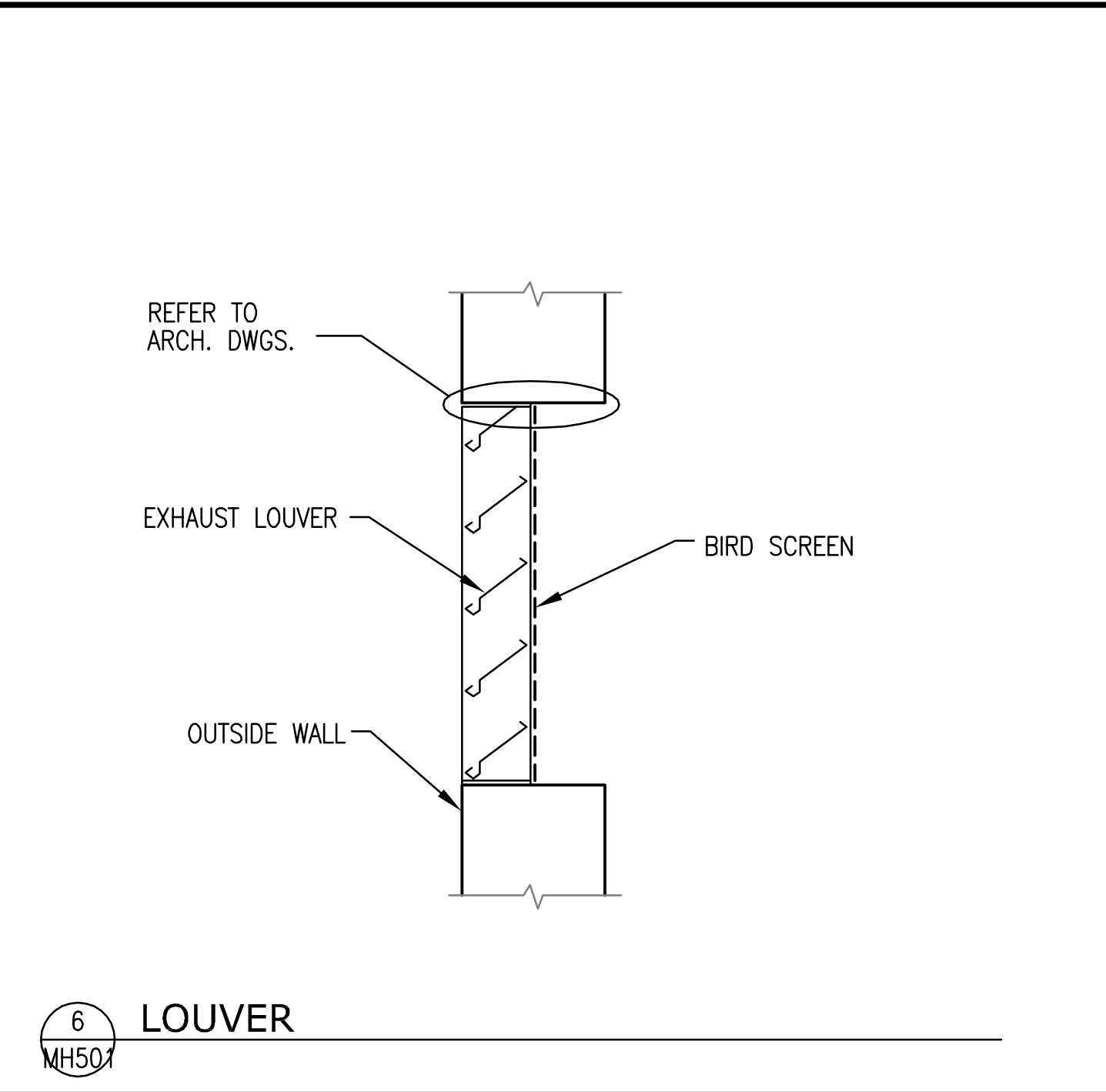
3 RETURN AIR GRILLE PLENUM  
MH501



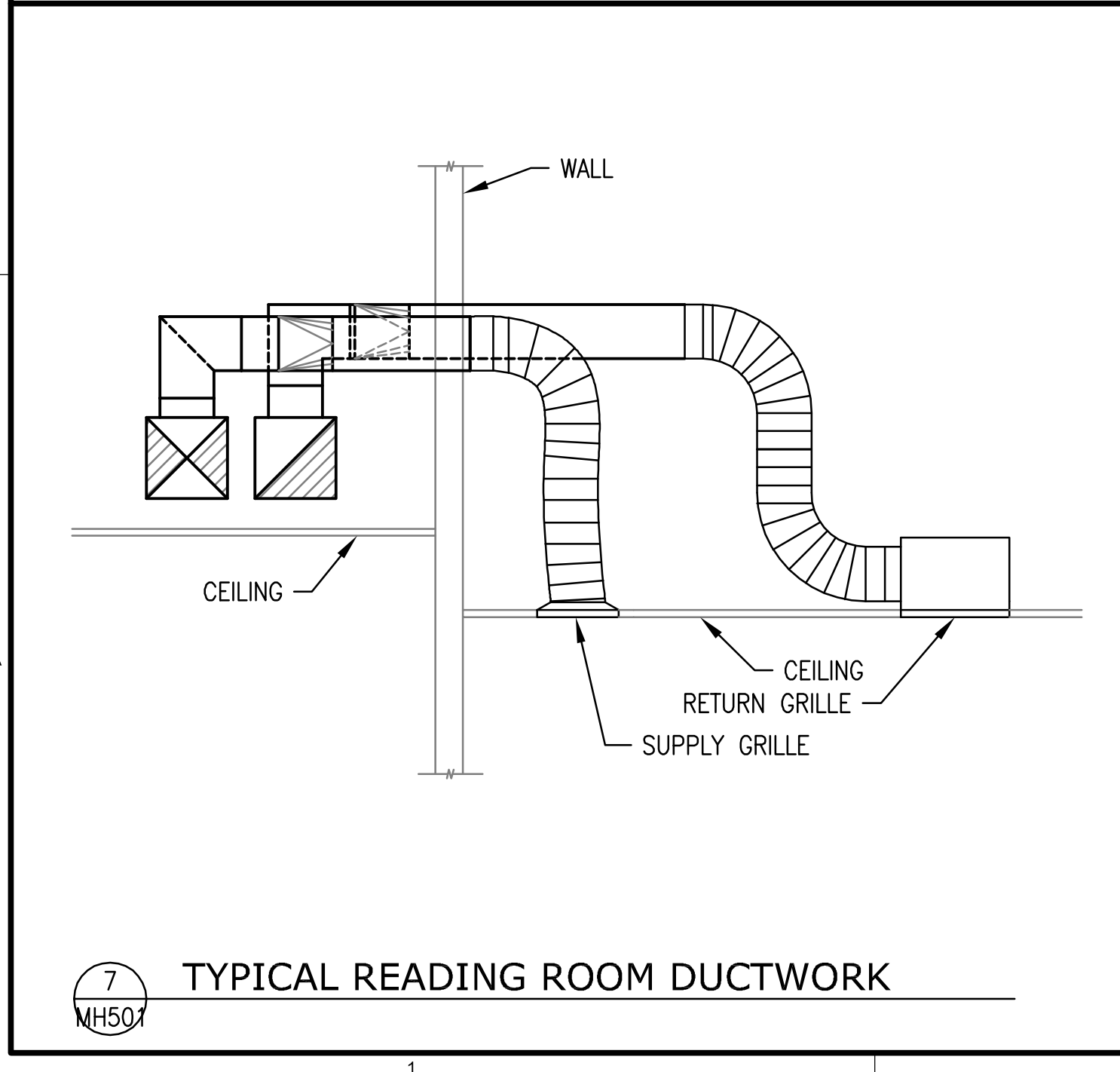
4 45° SMACNA ENTRY DUCT TAKE OFF  
MH501



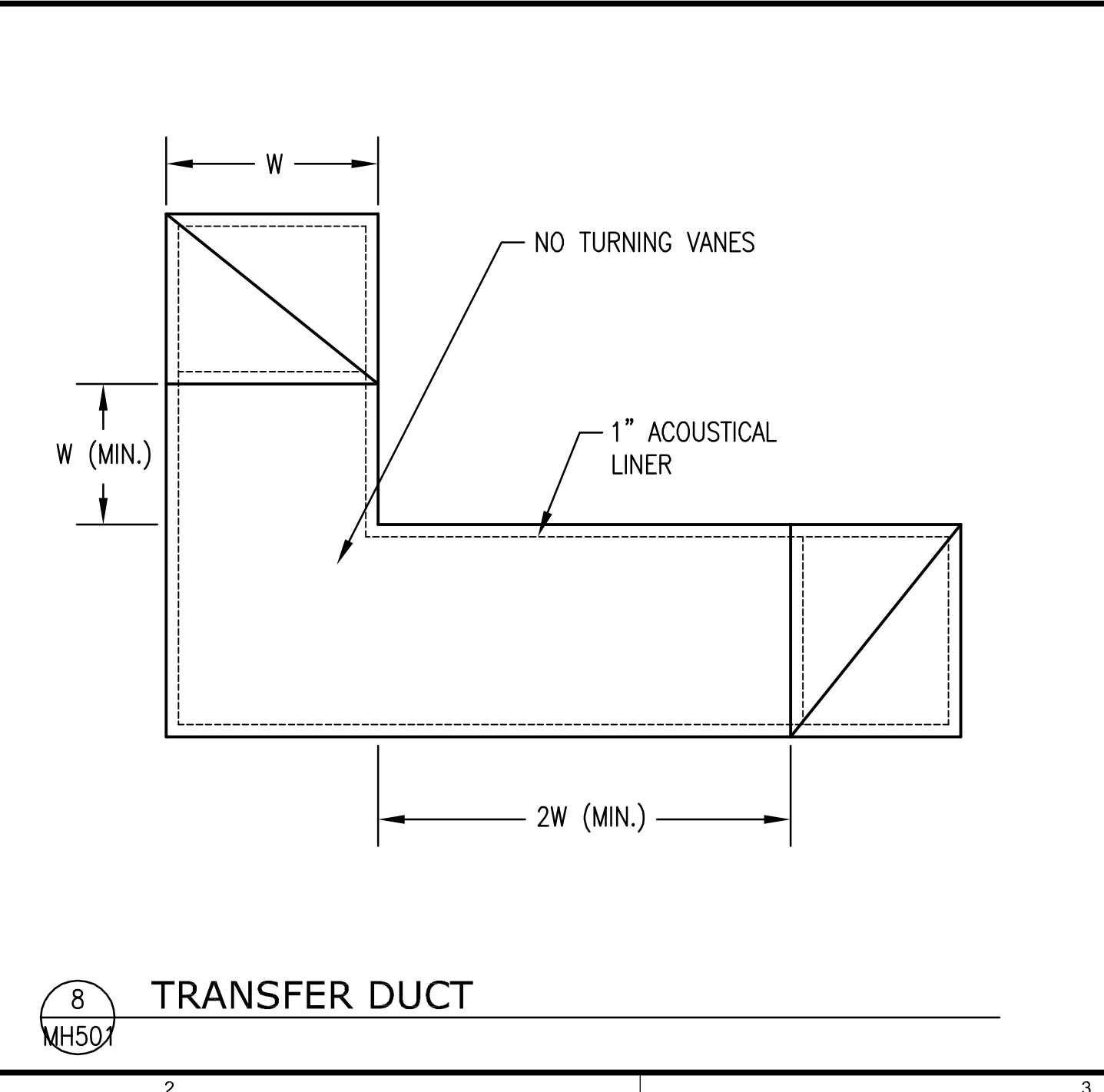
5 FLEX DUCT CONNECTION  
MH501



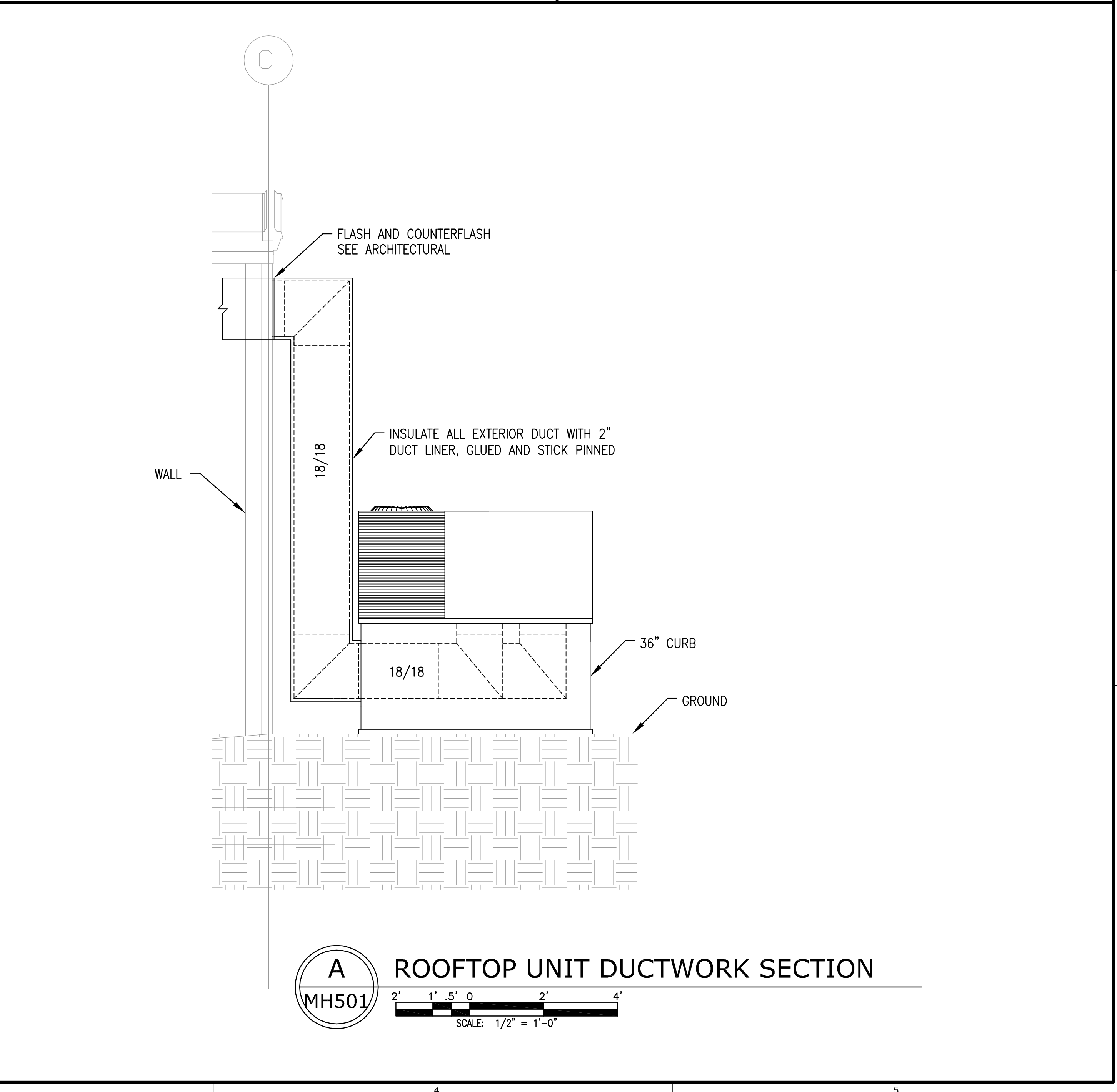
6 LOUVER  
MH501



7 TYPICAL READING ROOM DUCTWORK  
MH501



8 TRANSFER DUCT  
MH501



A ROOFTOP UNIT DUCTWORK SECTION  
MH501  
SCALE: 1/2" = 1'-0"

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ROOF TOP UNIT SCHEDULE (RTU)																																	RTU NOM. TON			
MARK	AREA SERVED	NOM. TONS	EER	CFM @ ELEV.	ESP IN WC	DRIVE	COOLING CAPACITY (PROJECT)				HEATING CAPACITY (PROJECT)					COMPRESSORS			CONDENSER FAN MOTORS			EVAPORATOR FAN MOTOR			ELECTRICAL			ECONOMIZER		DIMENSIONS				MANUFACTURER MODEL	REMARKS	
							TOTAL MBH	SENS. MBH	EAT °F DB/WB	AMB °F	STAGE	IN MBH	OUT MBH	TEMP RISE °F	MIN AFUE	FUEL	NO.	RLA	LRA	NO.	HP	FLA	NO.	FLA	HP	VOLT/PHASE	MCA	MCOP	PD IN WC	MIN. OA %	L IN	H IN	D IN			WT LBS
RTU-1	READING ROOMS	3	11.4	1200	1.2	BELT	37.3	34	80/63	95	1	80	64.8	35	80	NAT GAS	1	10.4	88	1	1/3	1.5	1	4	1/2	208/3ø	19	25	0.06	30%	76	35	47	550	RHEEM RKNL-A036CM08E	NOTE 1
RTU-2	COMMON AREA	5	11.1	2000	1.2	BELT	65.4	54.5	80/63	95	1	100	81	35	80	NAT GAS	1	15.6	110	1	1/3	2.2	1	7.6	1	208/3ø	30	40	0.10	30%	76	35	47	600	RHEEM RKNL-A060CM10E	NOTE 1

NOTE 1: ASHRAE 90.1 COMPLIANT, GAS AND ELECTRICAL KIT, ECONOMIZER, 36" DEEP CURB, AND 7-DAY PROGRAMMABLE SETBACK THERMOSTAT, SET ECONOMIZER MINIMUM OUTSIDE AIR TO 30%.

DUCT FREE SPLIT (DFS)																							DFS NOM. TON	
MARK	AREA SERVED	NOM. TONS	SEER	TOTAL MBH (ARI)	INDOOR UNIT								OUTDOOR UNIT										REMARKS	
					FAN HP	CFM	VOLT/ PHASE	L IN	H IN	D IN	WT LBS	MANUFACTURER MODEL	VOLT/ PHASE	MCA	MCOP	FLA	L IN	H IN	D IN	WT LBS	MANUFACTURER MODEL			
DFS-1	TEL/COM	2	18	24.2	75 W	647	208/ 1ø	39	13	9	31	FUJITSU "HALCYON" ASU36CLX	208/ 1ø	21	29	10.1	31	23	13	97	FUJITSU "HALCYON" AOU36CLX	NOTE 1		

NOTE 1: ASHRAE 90.1 COMPLIANT, W/ "FACTORY" CONTROLS, "FACTORY" LINE KIT, AND REMOTE CONTROL, "FACTORY" CONDENSATE PUMP, 0°F LOW AMBIENT, "FACTORY" CONDENSING UNIT BASE, AND AUTOMATIC AIR SWEEP.

ELECTRIC BASEBOARD HEATER (EBB) <div>EBB KW</div>									
MARK	AREA SERVED	WATTS	VOLTS/PHASE	L (IN)	D (IN)	H (IN)	WT (LBS)	MANUFACTURER MODEL	REMARKS
EBB-1	MECHANICAL ROOM	1000	120/1ø	48	3	10	10	QMARK 2514W	CONTROLLED BY UNIT MOUNTED THERMOSTAT

ELECTRIC RADIANT CEILING PANEL (RCP) <div>RCP W</div>								
MARK	AREA SERVED	WATTS	VOLTS/PHASE	L (IN)	D (IN)	H (IN)	MANUFACTURER MODEL	REMARKS
RCP-1	TR 108	375	120/1ø	24	24	1	QMARK 2514W	CONTROLLED BY UNIT MOUNTED THERMOSTAT

NOTE: W/ SURFACE MOUNTING FRAME.

AIR DEVICE SCHEDULE <div>DEVICE CFM/NCK</div>												
MARK	TYPE & DUTY	FACE SIZE H X W	NECK SIZE H X W	CEILING TYPE	MAX. CFM	MAX. T.P. (IN WC)	MAX. NC LEVEL	MIN T50 THROW (FT)	PATTERN	MANUFACTURER MODEL	REMARKS	
S-1	ARCHITECTURAL PLAQUE DIFFUSER	12/12	6ø	GYP.	150	0.02	13	7	4-WAY	KRUEGER PLQ	W/ SURFACE MOUNT FRAME AND SECURITY SCREWS	
S-2	ARCHITECTURAL PLAQUE DIFFUSER	12/12	8ø	GYP.	300	0.03	25	12	4-WAY	KRUEGER PLQ	W/ SURFACE MOUNT FRAME AND SECURITY SCREWS	
S-3	ARCHITECTURAL PLAQUE DIFFUSER	24/24	8ø	LAY-IN	275	0.03	20	12	4-WAY	KRUEGER PLQ	W/ LAY-IN FRAME	
S-4	ARCHITECTURAL PLAQUE DIFFUSER	24/24	10ø	LAY-IN	400	0.09	15	13	4-WAY	KRUEGER PLQ	W/ LAY-IN FRAME	
S-5	PERFORATED SUPPLY	16/16	8ø	GYP.	130	0.02	13	N/A	N/A	KRUEGER 6690	W/ SURFACE MOUNT FRAME AND SECURITY SCREWS	
R-1	PERFORATED RETURN	24/12	22/10	LAY-IN	500	0.05	28	N/A	N/A	KRUEGER 6490	W/ LAY-IN FRAME	
R-2	PERFORATED RETURN	12/12	10/10	GYP.	110	0.01	10	N/A	N/A	KRUEGER 6490	W/ SURFACE MOUNT FRAME AND SECURITY SCREWS	
R-3	PERFORATED RETURN	24/24	22/22	LAY-IN	1000	0.05	28	N/A	N/A	KRUEGER 6490	W/ LAY-IN FRAME	

EXHAUST FAN SCHEDULE (EF) <div>EF CFM</div>												
MARK	AREA SERVED	TYPE	CFM	ESP (IN WC)	MOTOR			SONES	DAMPER	CONTROL	MANUFACTURER MODEL	REMARKS
					RPM	WATTS	VOLT /PHASE					
EF-1	TOILET ROOM 108	CEILING	150	0.25	1300	113	120/1ø	4.7	OBD	SWITCH	COOK GC-124	
EF-2	TOILET ROOM 107	CEILING	75	0.25	900	51	120/1ø	1.8	OBD	SWITCH	COOK GC-124	
EF-3	KITCHENETTE	CEILING	50	0.35	745	39	120/1ø	2.1	OBD	SWITCH	COOK GC-124	
EF-4	MECHANICAL 118	CEILING	50	0.35	745	39	120/1ø	2.1	OBD	BREAKER	COOK GC-124	

LOUVER SCHEDULE (L) <div>L W/H</div>								
MARK	SYSTEM SERVED	CFM	FACE VELOCITY FPM	FLOW AREA SF	DIMENSIONS			REMARKS
					H IN	W IN	D IN	
L-E	CENTRAL EXHAUST	325	500	1.3	16	12	4	RUSKIN ELF375DX

NOTE 1: EXTRUDED ALUMINUM CONSTRUCTION W/BIRDSCREEN AND FACTORY APPLIED KYNAR FINISH MATCHING COLOR CHIP PROVIDED BY ARCHITECT.

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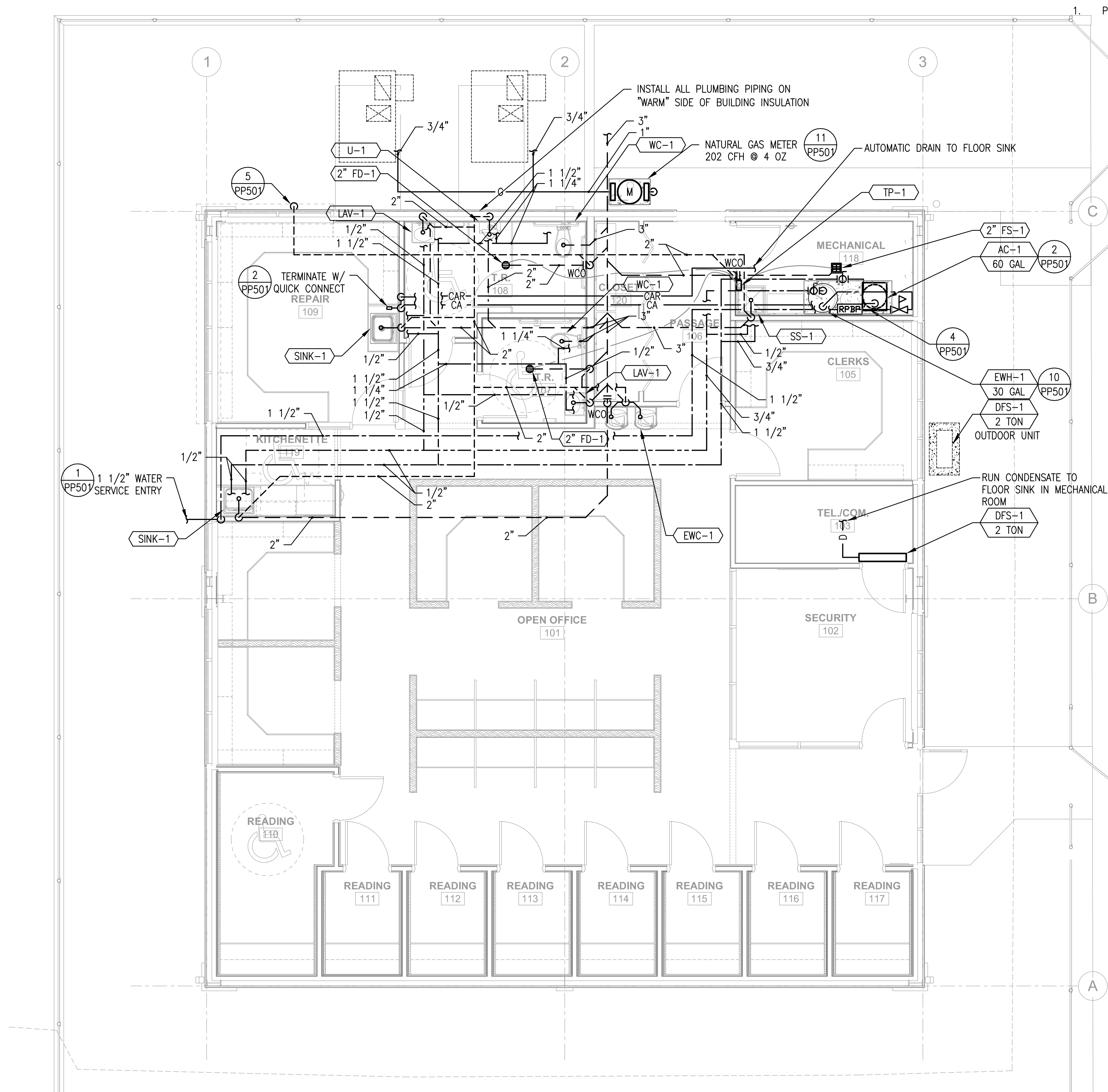
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1 PLUMBING FLOOR PLAN  
PP101

4' 2' 1' 0' 4' 8'  
SCALE: 1/4" = 1'-0"

NORTH

GENERAL NOTES

1. PROVIDE ALL STOPS WITH LOOSE KEY.

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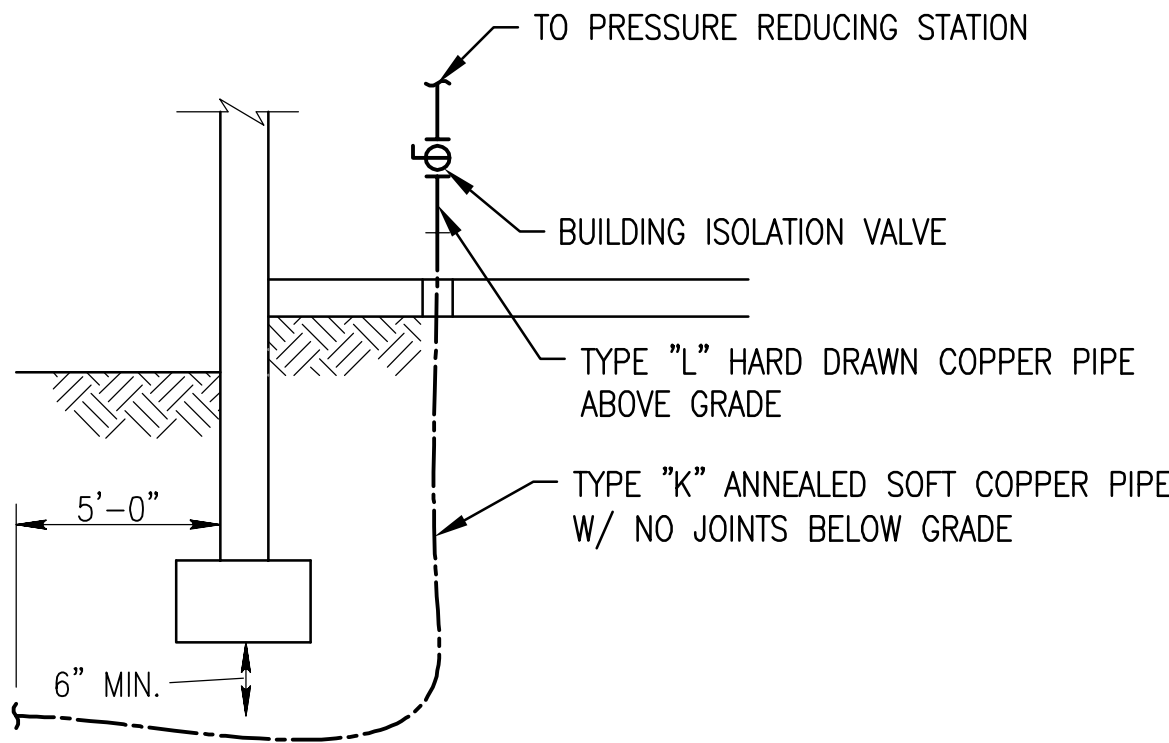
PLUMBING  
FLOOR PLAN

SHEET NUMBER:

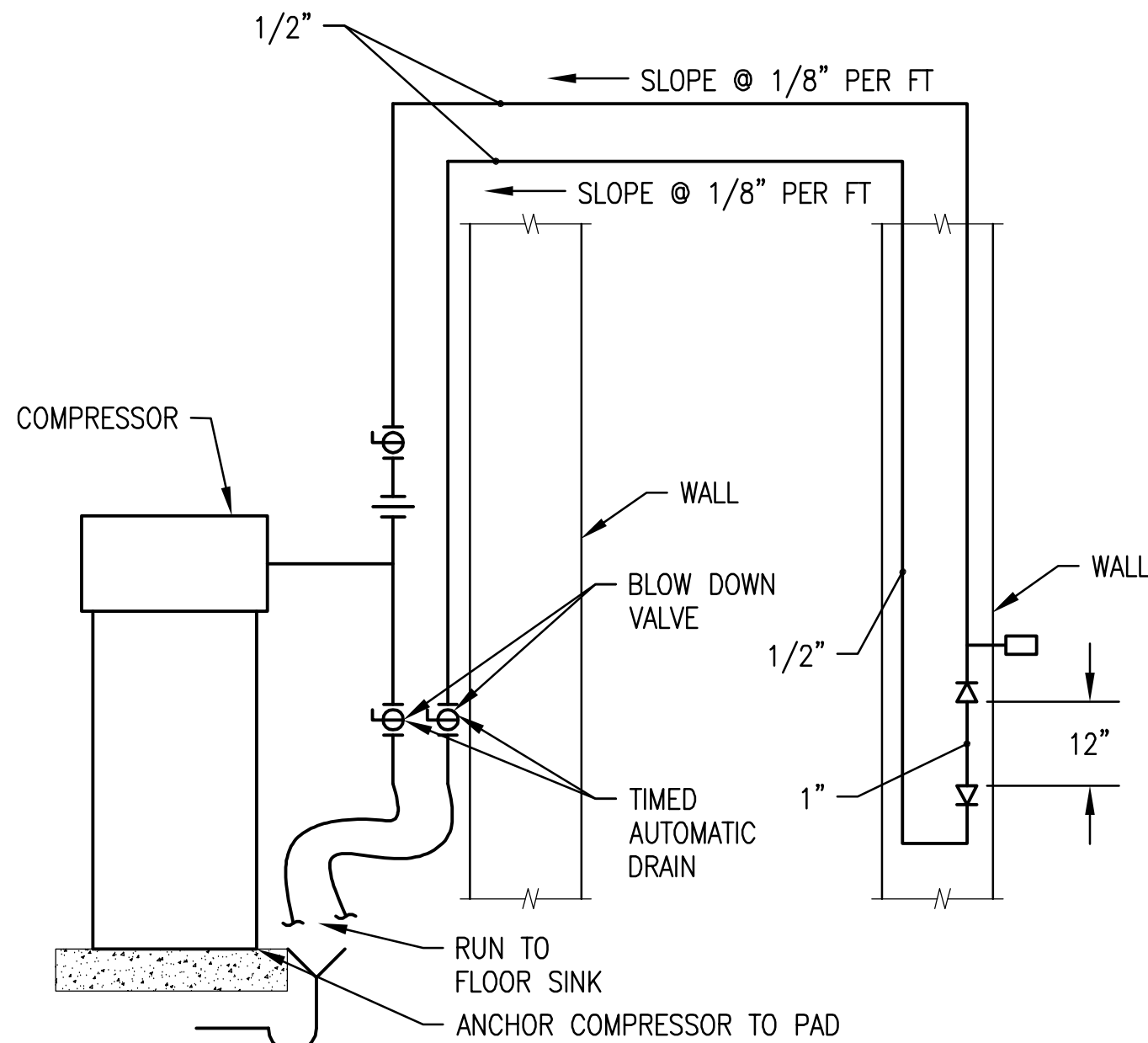
PP101



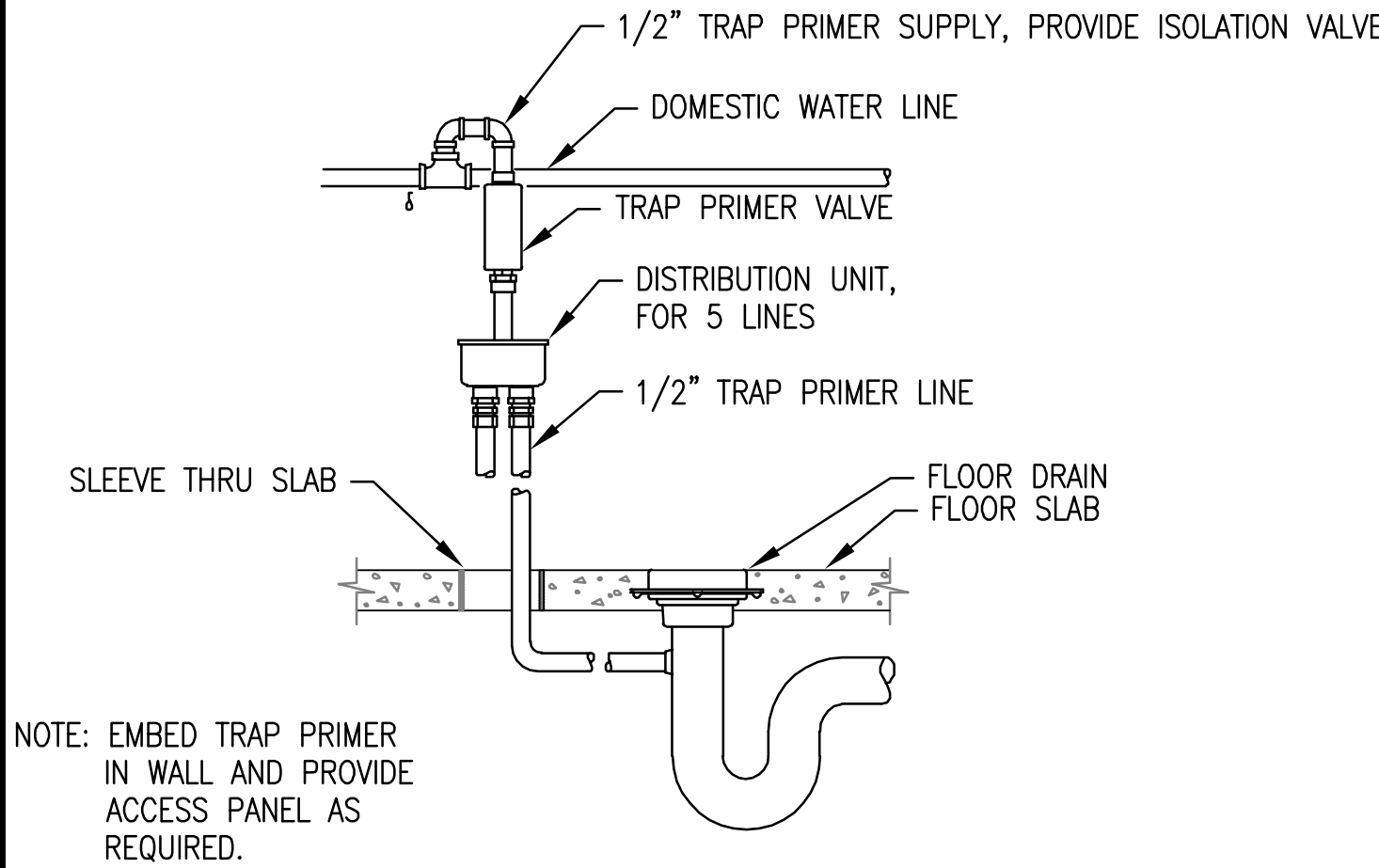
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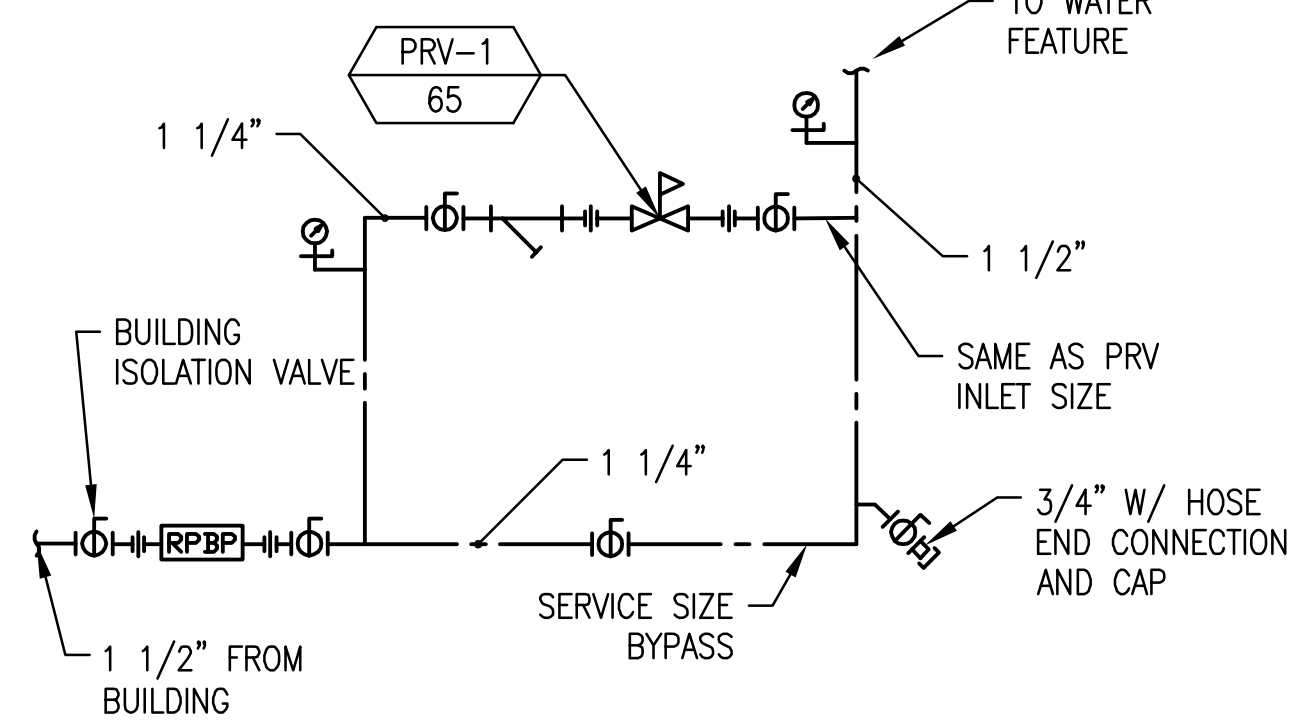
1 WATER SERVICE ENTRANCE  
RP501



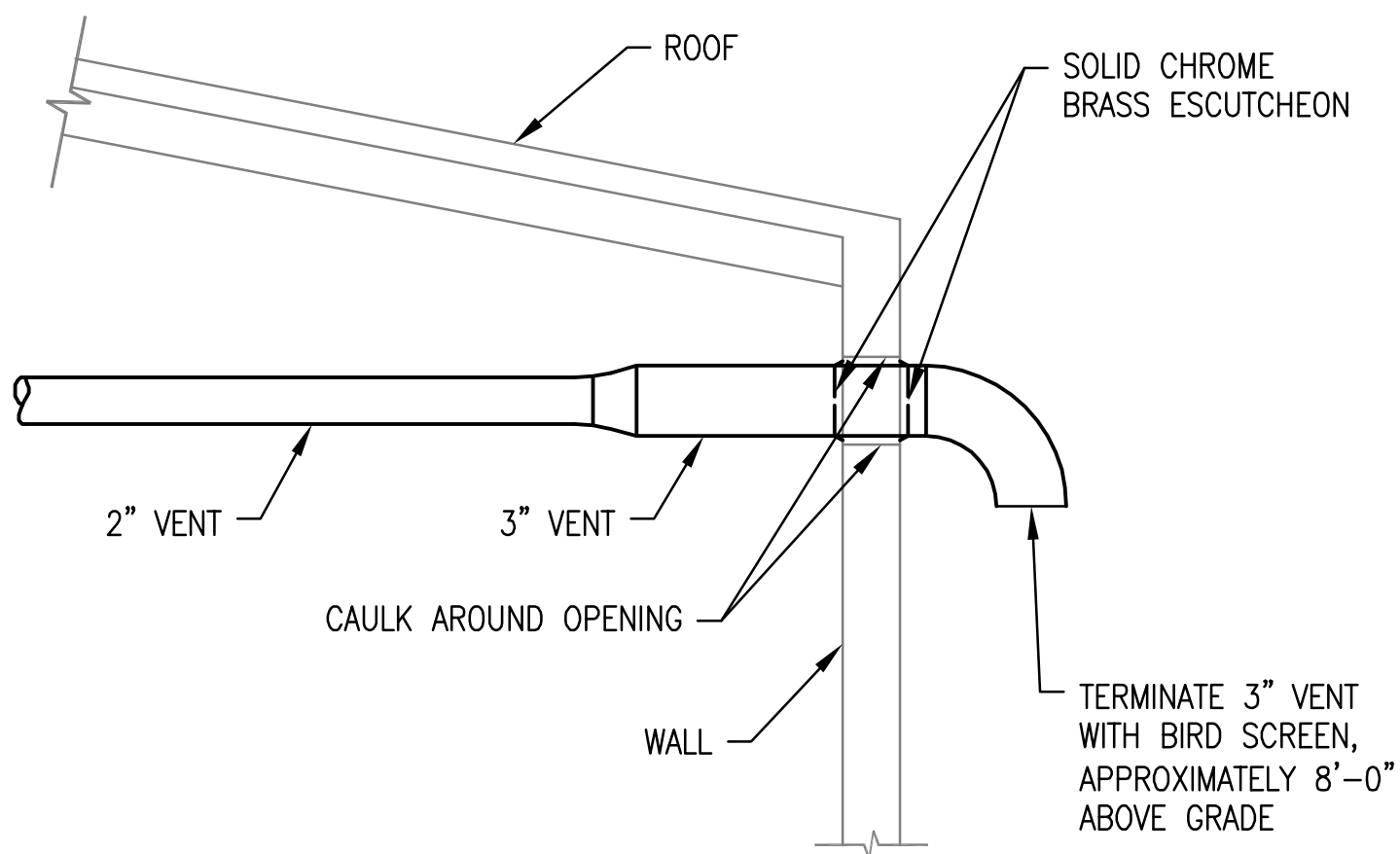
2 COMPRESSED AIR DROP  
RP501



3 TRAP PRIMER  
RP501



4 PRESSURE REDUCING STATION  
RP501

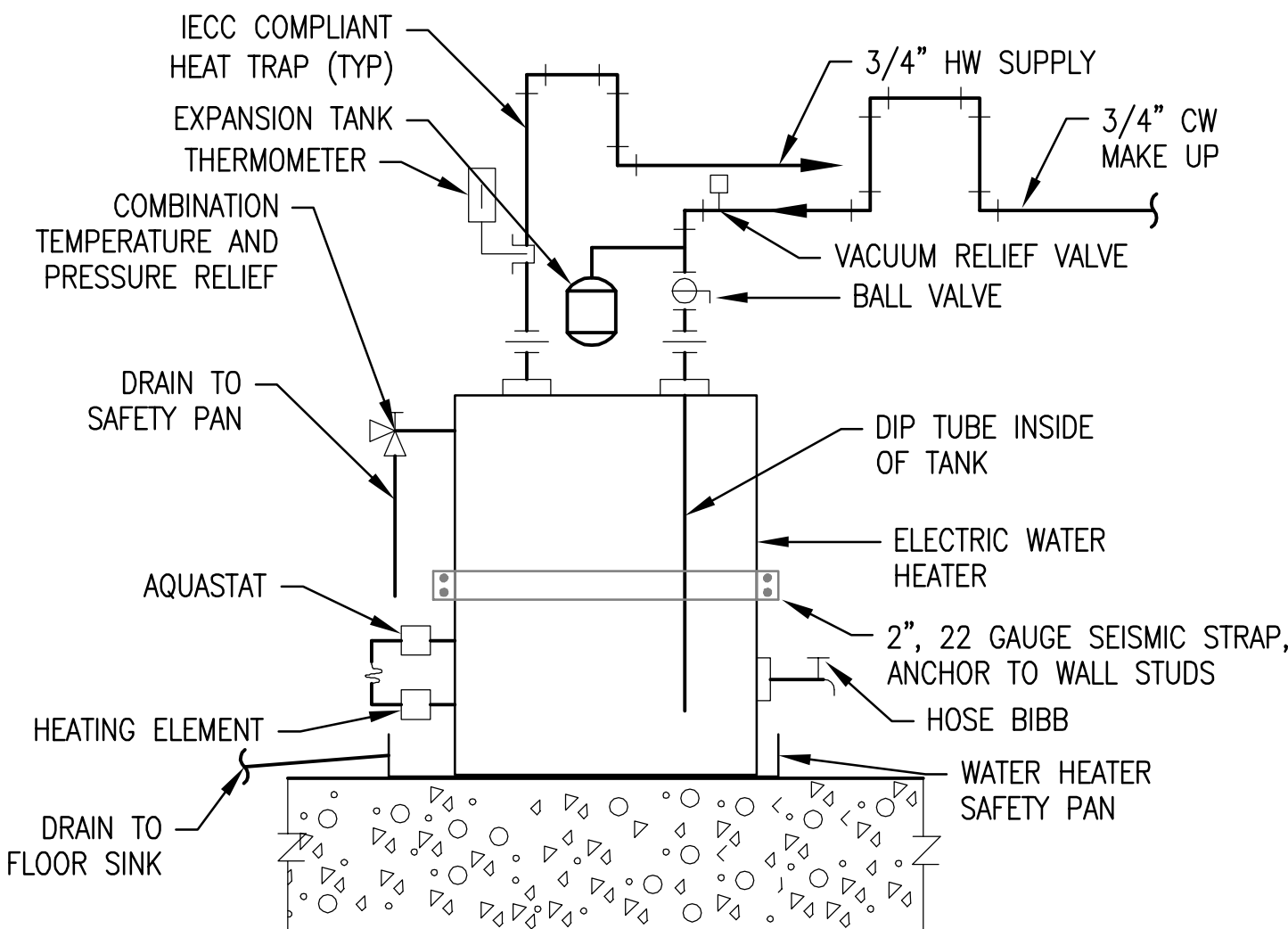


5 VENT TERMINATION  
RP501

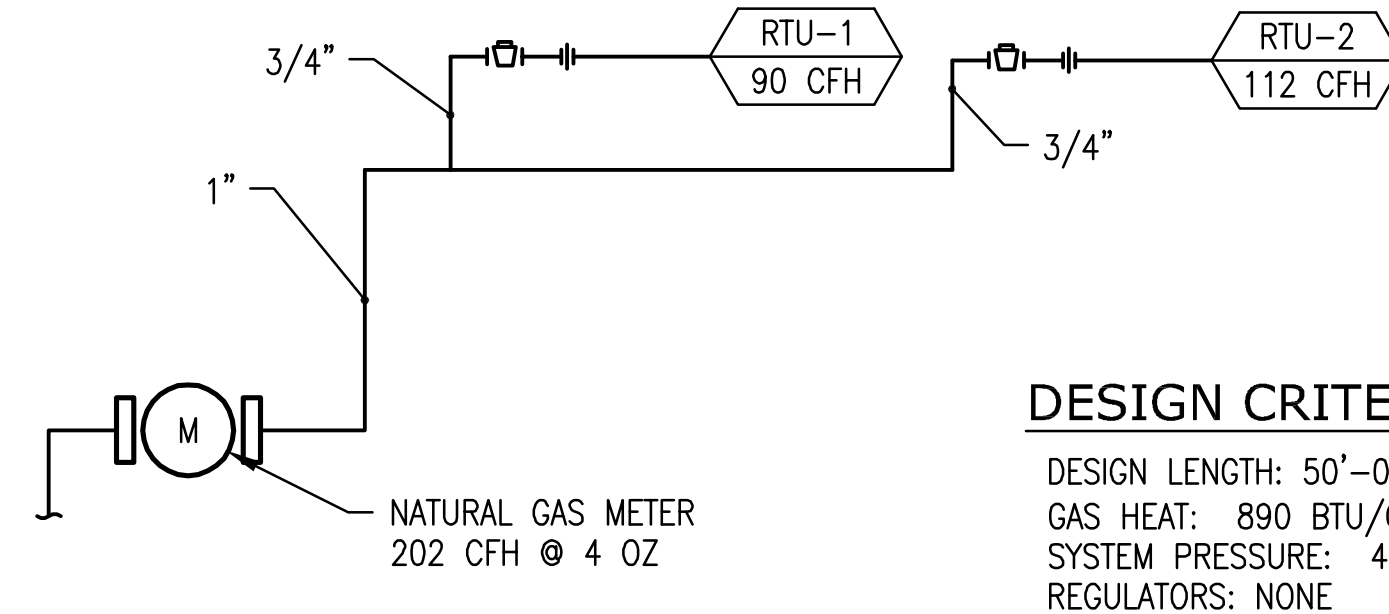
6 NOT USED  
RP501

7 NOT USED  
RP501

8 NOT USED  
RP501



10 FLOOR MOUNTED ELECTRIC WATER HEATER  
RP501



11 NATURAL GAS PIPING DIAGRAM  
RP501



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1

2

3

4

5

PLUMBING FIXTURE SCHEDULE

FIXTURE

MARK	FIXTURE	ROUGH IN SIZE					MANUFACTURER MODEL	REMARKS
		WASTE IN	TRAP IN	VENT IN	HW IN	CW IN		
WC-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, ADA COMPLIANT	3	2	2	N/A	1	KOHLER "HIGHCLIFF" K-4368 (NO SUBSTITUTIONS WC OR VALVE)	VITREOUS CHINA, 1.6 GPF, ELONGATED BOWL, SLOAN ROYAL 111 FLUSHOMETER, 17" FLOOR TO RIM, 12" ROUGH IN, W/LUSTRA K-4670-C OPEN FRONT SEAT.
U-1	URINAL, WALL MOUNTED, FLUSH VALVE	2	2	2	N/A	3/4	KOHLER "FRESHMAN" K-4989-T	VITREOUS CHINA, 1.0 GPF, WITH SLOAN ROYAL 186 EXPOSED MANUAL FLUSH VALVE.
LAV-1	LAVATORY, WALL MOUNTED, ADA COMPLIANT, LAV FAUCET	2	1 1/4	2	1/2	1/2	KOHLER "CHESAPEAKE" K-1728	VITREOUS CHINA COUNTERTOP LAVATORY W/ FAUCET HOLES ON 4" CENTERS, CONCEALED ARM CARRIER, GRID STRAINER, AND T&S B-0870 DOUBLE HANDLE FAUCET.
SINK-1	SINK, SINGLE COMPARTMENT, COUNTER MOUNTED, STAINLESS STEEL	2	1 1/2	2	1/2	1/2	ELKAY DLR312210 SINK W/ T&S B-0870 FAUCET	STAINLESS STEEL COUNTERTOP SINK, INSIDE BOWL 28"x16"x10" W/ 2 HOLES ON 4" CENTERS. PROVIDE WRIST BLADE HANDLES, CHROMED ANGLE LOOSE KEY STOPS, CHROMED BRASS SUPPLIES, AND CHROMED BRASS "P" TRAP.
EW-1	ELECTRIC WATER COOLER, TWO STATION, ADA COMPLIANT	1-1/2	1 1/2	1-1/2	N/A	1/2	ELKAY EZSTL8C	W/ FRONT AND SIDE CONTROLS, 9.6 GPH 50°F DRINKING WATER, 120V/1Ø/3.7A, CHROMED ANGLE STOP, CHROMED BRASS "P" TRAP, AND CHROMED BRASS SUPPLY.
TP-1	TRAP PRIMER	N/A	N/A	N/A	N/A	1/2	PPP 500	TRAP PRIMER.
SS-1	SERVICE SINK, ENAMELED CAST IRON	3	3	2	1/2	1/2	AMERICAN STANDARD FLORWELL W/ T&S B-0674-BSTP FAUCET	28"x28"x13" DEEP ENAMELED CAST IRON SERVICE SINK W/ FLAT GRID DRAIN, REMOVABLE VINYL-COATED RIM GUARD, HOSE AND HOSE BRACKET. POLISHED CHROME FAUCET W/TOP BRACE, LOOSE KEY STOPS AND VACUUM BREAKER.
FS-1	FLOOR SINK	X	X	X/2 2" MIN	N/A	N/A	ZURN FD-2377-Y	CAST IRON, 12"x12"x10" DEEP, 1/2 GRATE, WHITE ACID RESISTING INTERIOR, PVC DOME STRAINER, AND SEDIMENT BUCKET
FD-1	FLOOR DRAIN	2	2	2	N/A	N/A	ZURN FD-2321-NH2	CAST IRON BODY, ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, MEMBRANE CLAMP, WEEP HOLES, AND TRAP PRIMER CONNECTION

ELECTRIC WATER HEATER SCHEDULE (EWH)

EWH  
TANK GAL

MARK	TANK CAP GAL	INPUT WATTS	RECOVERY GAL/HR	TEMP RISE °F	DIMENSIONS			ELECT.		MANUFACTURER MODEL	REMARKS
					DIA IN	HEIGHT IN	OP. WT LBS	VOLT/ PHASE	AMPS		
EWH-1	30	2X1.5 KW	10	60	20	30	250	208/ 3Ø	L1&L2/12.5 L3/7.3	BRADFORD WHITE M-2-30L6DS	W/ WATER HEATER SAFETY PAN SIMULTANEOUS DUAL ELEMENT OPERATION AND AMTROL ST-5-C EXPANSION TANK

AIR COMPRESSOR SCHEDULE (AC)

AC  
TANK CAP

MARK	TANK GAL	MAX PRESSURE PSIG	MOTOR HP	ELECTRICAL		DIMENSIONS				MANUFACTURER MODEL	REMARKS
				VOLT	PHASE	L IN	W IN	H IN	WT LBS		
AC-1	60	135	3	230	1	20	23	66	300	INGERSOLL RAND SS3L3	

PRV SCHEDULE (PRV)

PRV  
SETTING

MARK	SIZE	GPM	PD PSI	SETTING	MANUFACTURER MODEL
PRV-1	1 1/4"	47	10	65	WATTS 223S

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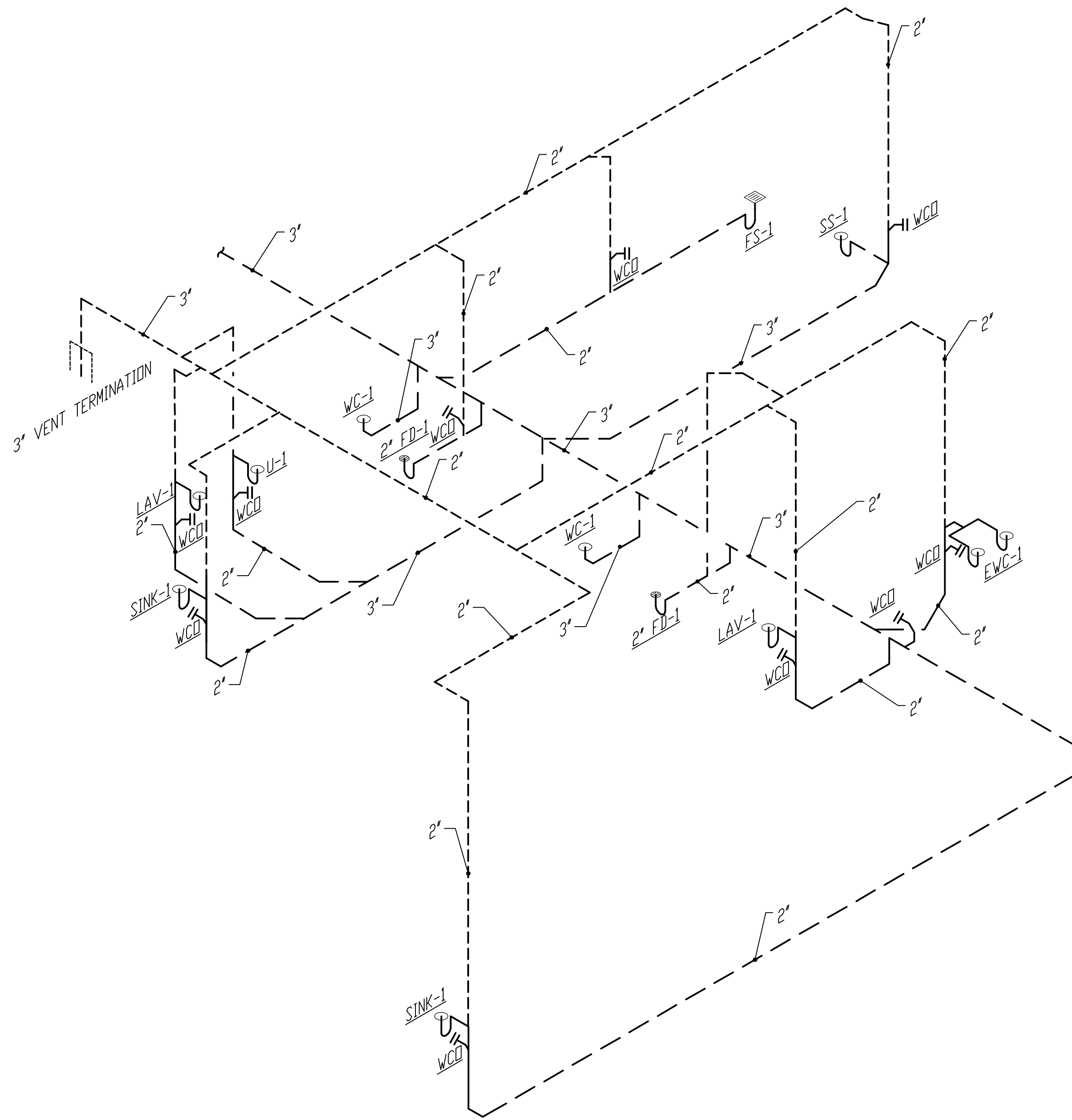
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----- VENT  
----- ABOVE GRADE WASTE  
----- WASTE

1  
PP701

PLUMBING ISOMETRIC



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ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	kW	KILOWATT
2WAY	TWO-WAY	kWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3PH	THREE-PHASE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LPS	LOW PRESSURE SODIUM
4PDT	FOUR-POLE DOUBLE THROW	LRA	LOCKED ROTOR AMPS
4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR-WIRE	LV	LOW VOLTAGE
4WAY	FOUR-WAY	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERE INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
ALUM	ALUMINUM	MG	MOTOR GENERATOR
AMP	AMPERE	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
AP	ACCESS POINT	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT PROTECTION
ASC	AMPS SHORT CIRCUIT	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BB XFMR	BUCK-BOOST TRANSFORMER	NFC	NATIONAL FIRE CODE
C	CEILING MOUNTED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OC	ON CENTER
CF/Ci	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	OCP	OVER CURRENT PROTECTION
CF/Oi	CONTRACTOR FURNISHED/OWNER INSTALLED	OF/Ci	OWNER FURNISHED/CONTRACTOR INSTALLED
CKT	CIRCUIT	OF/Oi	OWNER FURNISHED/OWNER INSTALLED
CM	CONSTRUCTION MANAGER	OFF	OBTAIN FROM PLANS
CND	CONDUIT	OH DR	OVERHEAD (COILING) DOOR
CO	CONVENIENCE OUTLET	OL	OVERLOAD
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PB	PUSHBUTTON
CP	CONTROL PANEL	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
CU	COPPER	PT	POTENTIAL TRANSFORMER
dB	UNIT OF SOUND LEVEL	PTZ	PAN/TILT/ZOOM
DPDT	DOUBLE POLE DOUBLE THROW	QTY	QUANTITY
DS	DISCONNECT SWITCH	R	REMOVE
EA	EACH	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETALLIC CONDUIT
ENT	ELECTRICAL NONMETALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
EPO	EMERGENCY POWER OFF EQUIP	RR	REMOVE AND RELOCATE
EQUIP	EQUIPMENT	SCA	SHORT CIRCUIT AMPS
EX	EXISTING	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
F	FURNITURE MOUNTED	SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE, DOUBLE THROW
FLA	FULL LOAD AMPS	SPEC	SPECIFICATION
FMC	FLEXIBLE METALCONDUIT	SPST	SINGLE POLE, SINGLE THROW
FOB	FREIGHT ON BOARD	S/S	START/STOP
FVNR	FULL VOLTAGE NON-REVERSING	ST	SINGLE THROW
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
G	GROUND	SWGR	SWITCHGEAR
GEN	GENERATOR	TL	TWIST LOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TELEPHONE POLE
GFP	GROUND FAULT PROTECTION	TP	TWISTED PAIR
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TV	TELEVISION
HOA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HORSE POWER	TYP	TYPICAL
HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HZ	HERTZ	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
IN/IS	INSULATED/ISOLATED	W/	WITH
I/O	INPUT/OUTPUT	W/O	WITHOUT
IR	INFRARED	WP	WEATHERPROOF
J-BOX	JUNCTION BOX	XFMR	TRANSFORMER

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	
TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...	

ELECTRICAL SHEET INDEX	
SHEET NO	SHEET TITLE
EE-001	SHEET INDEX, ABBREVIATIONS, DEFINITIONS, GENERAL NOTES
EE-002	SYMBOL LEGEND
EE-701	TYPICAL MOUNTING HEIGHTS
ES-101	SITE PLAN
EP-101	POWER PLAN
EP-601	ONE-LINE DIAGRAM
EP-602	EQUIPMENT & PANEL SCHEDULES
EL-101	LIGHTING PLAN
EL-601	LIGHTING FIXTURE SCHEDULE
EY-101	SECURITY PLAN
EY-601	SECURITY DIAGRAMS & SCHEDULES

- ### GENERAL ELECTRICAL NOTES
- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
  - OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
    - THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
    - THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
    - THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
  - EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
  - SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
  - REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

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PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON

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CHECKED BY:

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DESIGNED BY:

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SHEET TITLE:

SHEET INDEX,  
ABBREVIATIONS,  
DEFINITIONS,  
GENERAL NOTES

SHEET NUMBER:

EE-001



SYMBOL LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	PROPERTY LINE: DASHED, WIDE LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
WIRING METHODS	
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.
	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
	PULL BOX.
	CABLE TRAY ABOVE ACCESSIBLE CEILING.
	EARTH GROUND (ONE-LINE DIAGRAM).
	JUNCTION BOX, CEILING.
	LADDER RACK.
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX, TAMPER-PROOF WITH SECURITY PLATE. NEMA 5-20R. TYPE HUBBELL HBL8300SGWA-SWP8
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
	RECEPTACLE, DUPLEX, FLOOR, UNDER CARPET: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, DRYER: NEMA 10-30R.
	RECEPTACLE, RANGE: NEMA 10-50R.
	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DROP CORD. SEE DETAIL.
	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	POWER POLE. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	SWITCH, DIMMER.
	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED).
	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
	SWITCH, KEY OPERATED.
	SWITCH, MOMENTARY.
	SWITCH, PILOT LIGHT.
	SWITCH, TIMER OPERATED.
	SWITCH, WEATHERPROOF.
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
	UTILITY POLE.
	UTILITY, COMMUNICATIONS MANHOLE.
	TRANSFORMER.
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	NIGHT LIGHT: DO NOT SWITCH.
	EGRESS DIRECTION ARROW.
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	OCCUPANCY SENSOR, ULTRASONIC, OMNI-DIRECTIONAL, CEILING.
	PHOTOCELL.
	TIME CLOCK.
STRUCTURED CABLING	
	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
	TELEPHONE, WALL MOUNTED: PAY PHONE.
	TELEPHONE, WALL MOUNTED: WALL PHONE.
	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES (IF NO QUANTITY GIVEN, ASSUME 1 JACK)).
	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	OVERLOAD RELAY (ONE-LINE DIAGRAM).
	STARTER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
	MOTOR.
	TRANSFORMER (ONE-LINE DIAGRAM).
	TRANSFORMER, CURRENT (ONE-LINE DIAGRAM).
	PANELBOARD (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
	PANELBOARD WITH CIRCUIT BREAKER AND SUB FEED LUGS (ONE-LINE DIAGRAM).
	TRANSITION CABINET (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	METER.
	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	LIGHTING CONTROL STATION.
	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
	CENTRAL PROCESSOR UNIT.
	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER: NUMBER INDICATES KVA.
	BUSWAY.
	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
FIRE ALARM	
	FIRE SYSTEM ANNUNCIATOR.
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	FIRE ALARM NOTIFICATION POWER SUPPLY.
	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	INDICATOR LAMP.
	STROBE.
	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WEATHERPROOF.
	ALARM, HORN/STROBE, ONE ASSEMBLY.
	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, CHIME/STROBE, ONE ASSEMBLY.
	ALARM, HORN/STROBE WITH GUARD, ONE ASSEMBLY.
	SPEAKER, EVACUATION.
	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	SMOKE DAMPER.
	FIRE AND SMOKE DAMPER.
	BELL (GONG).
	DETECTOR, CARBON MONOXIDE.
	DETECTOR, SMOKE/STROBE, RESIDENTIAL.
	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
SECURITY	
	CARD READER.
	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
	REMOTE DOOR RELEASE BUTTON.
	CALL BUTTON.
	CCTV MONITOR EQUIPMENT.
	CARD ACCESS CONTROLLERS AND POWER SUPPLIES.
	TRANSIENT VOLTAGE SURGE SUPPRESSER.
	CAMERA POWER SUPPLY.
	RELAY.
	CCTV HEAD-END DVR.
	FLASHING CALL INDICATOR LIGHT.
	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.

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PROFESSIONAL STAMP

CONSULTANTS:

PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON

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NO.	DATE	DESCRIPTION
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CHECKED BY:

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SHEET TITLE:

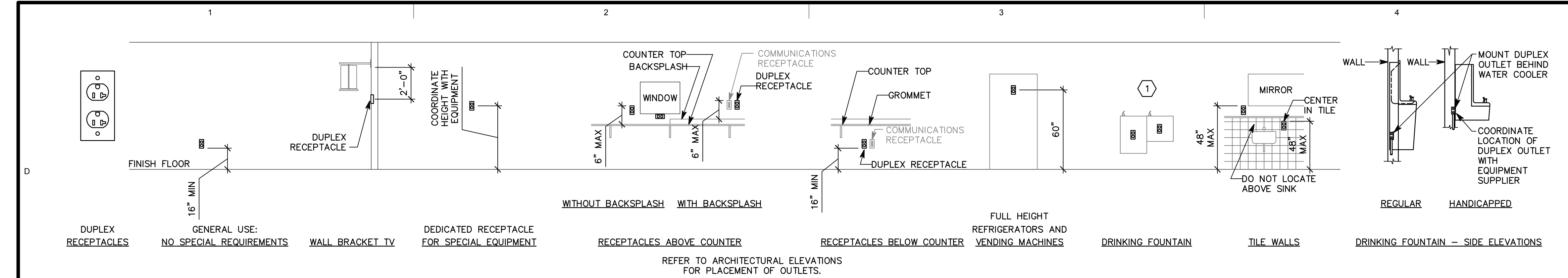
SYMBOL LEGEND

SHEET NUMBER:

EE-002

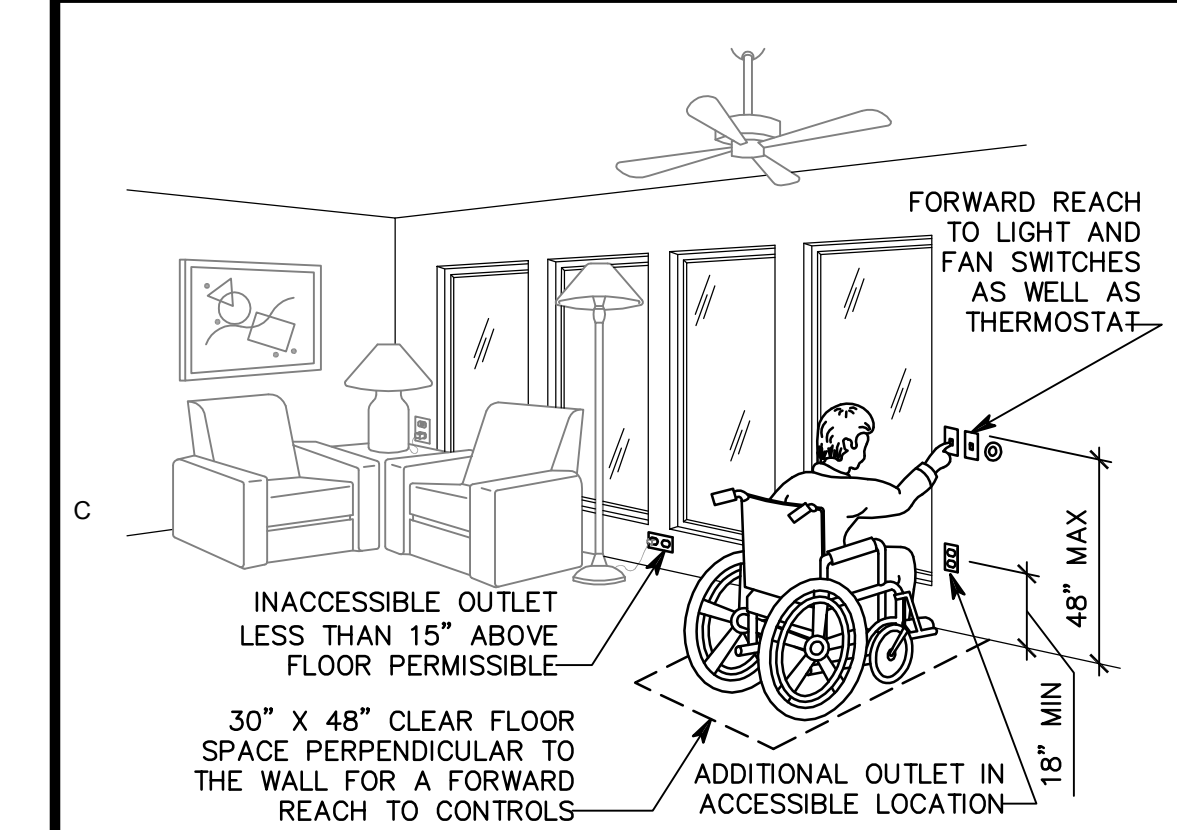


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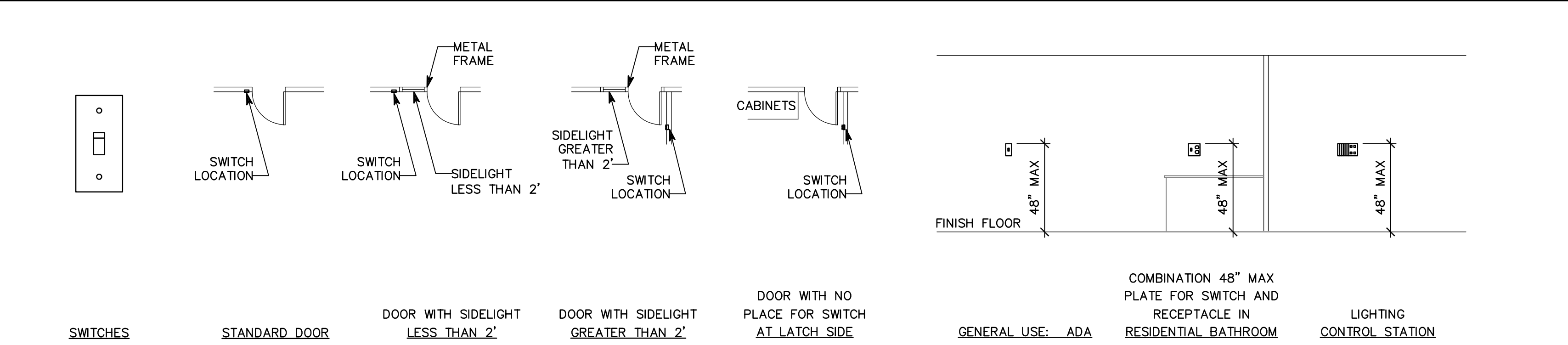
## D1 RECEPTACLE MOUNTING DETAILS

NTS



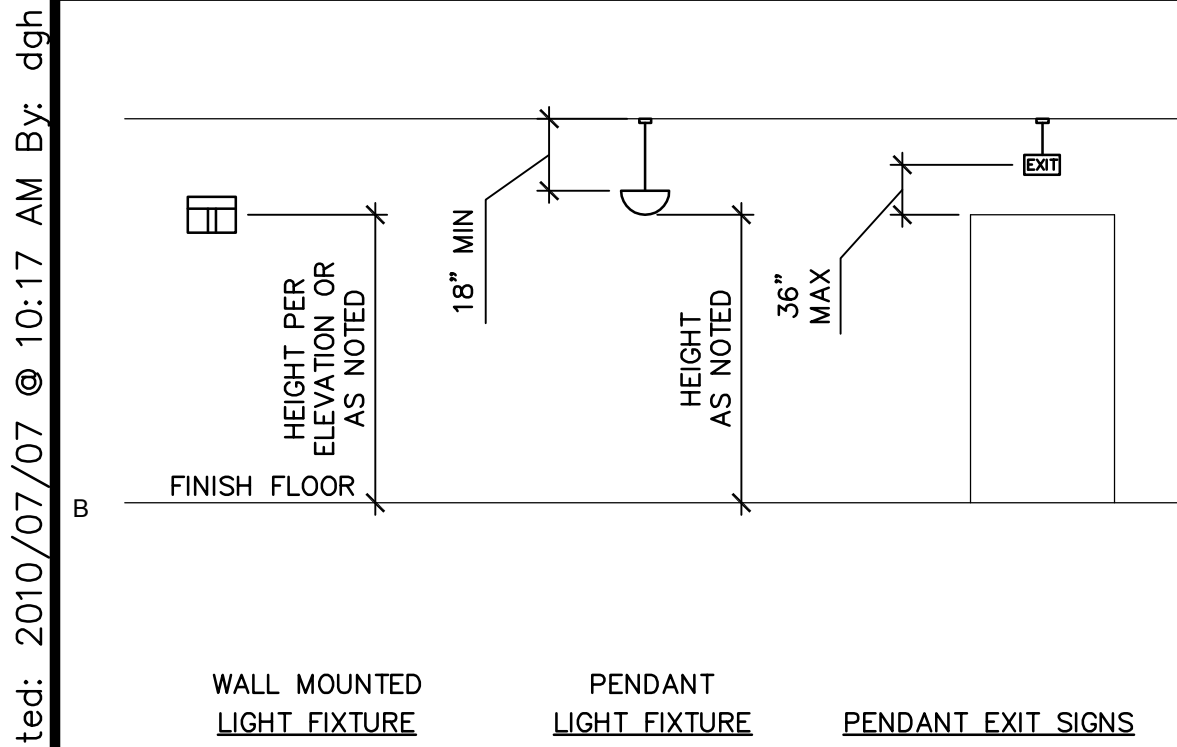
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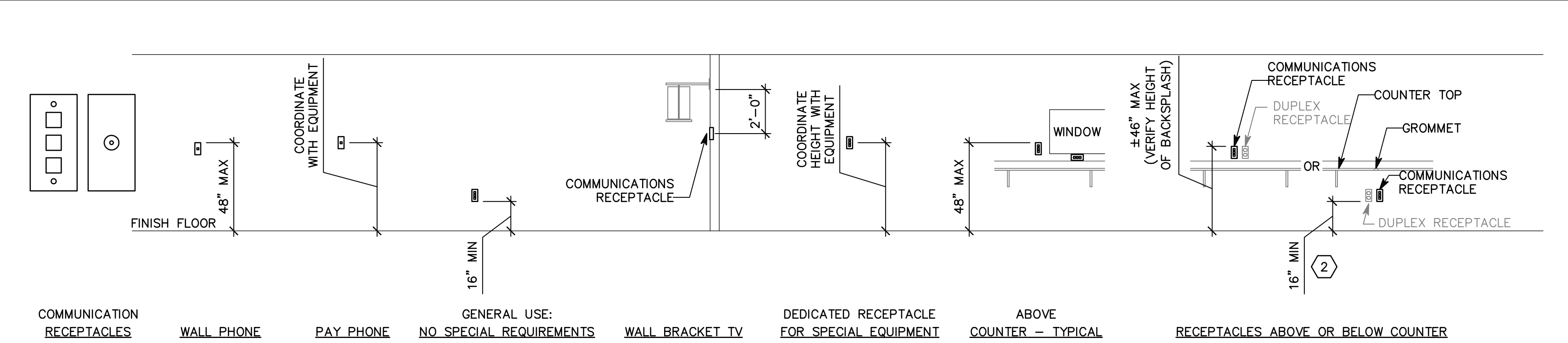
## C2 SWITCH MOUNTING DETAILS

NTS



## B1 LIGHTING MOUNTING DETAILS

NTS



## B2 COMMUNICATION MOUNTING DETAILS

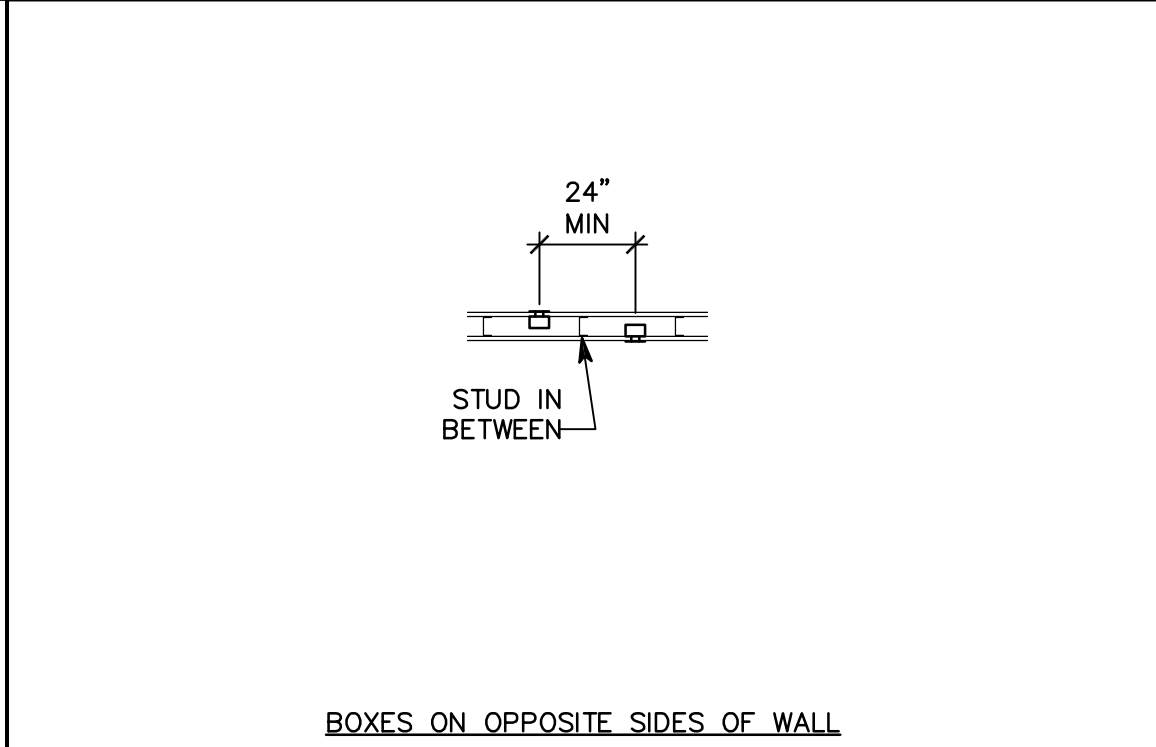
NTS

## GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
  - 1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
  - 2 - EQUIPMENT SHOP DRAWINGS.
  - 3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.

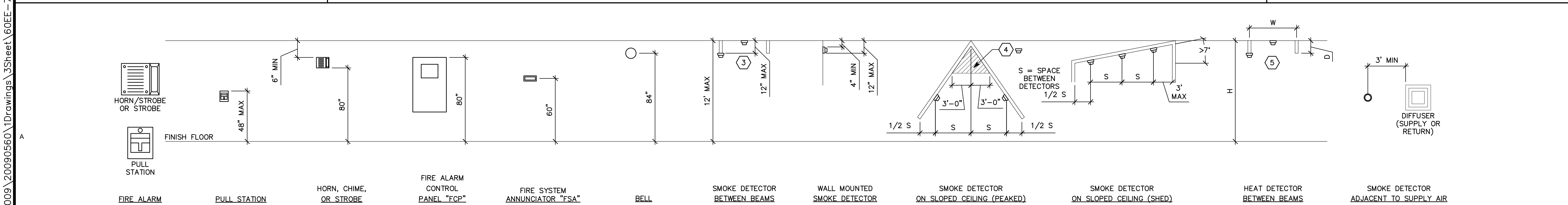
## SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE SMOKE DETECTOR ANYWHERE IN SHADED AREA.
5. LOCATE AT BOTTOM OF BEAMS IF EITHER D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET.



## B5 BOX MOUNTING DETAILS


NTS



## A1 FIRE ALARM MOUNTING DETAILS

NTS

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**B+B**



**SPECTRUM**  
ENGINEERS



**SMD**  
ENGINEERING, PLLC

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NEW LIBRARY  
DRAPER PRISON

REVISIONS:

NO.	DATE	DESCRIPTION
1	[Date 1]	[Revision 1]

ISSUED:

NO.	DATE	DESCRIPTION
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#3	07/07/2010	BID DOCUMENTS (REDESIGN)

OWNER PROJECT #:

09223080

SPE PROJECT #:

09-12

DRAWN BY:

RRP/DGH

CHECKED BY:

DGH

DESIGNED BY:

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SHEET TITLE:

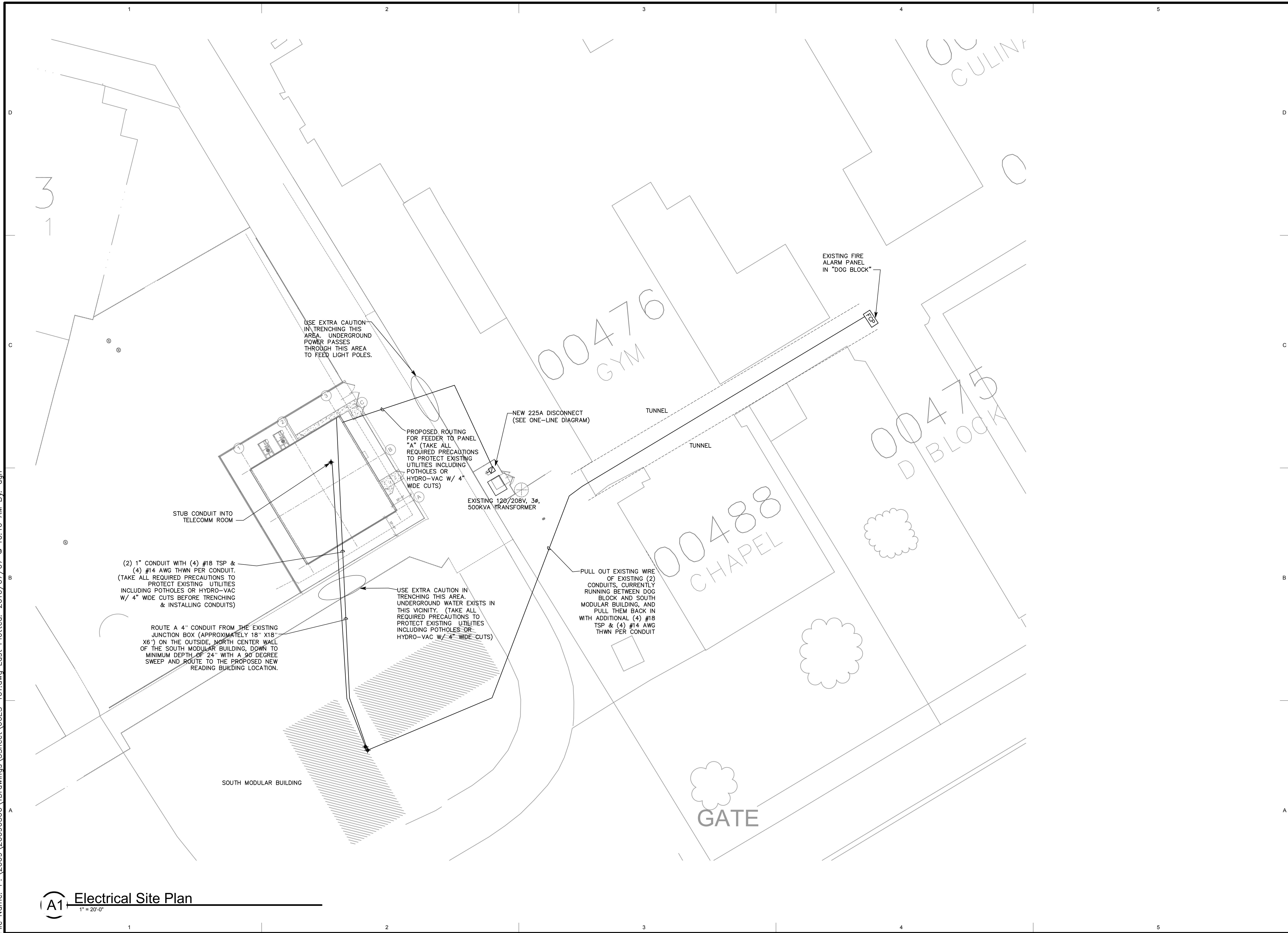
TYPICAL  
MOUNTING  
HEIGHTS

SHEET NUMBER:

EE-701



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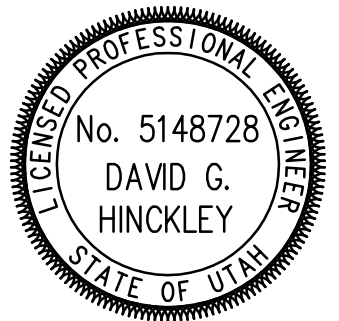
**A1** Electrical Site Plan  
1" = 20'-0"



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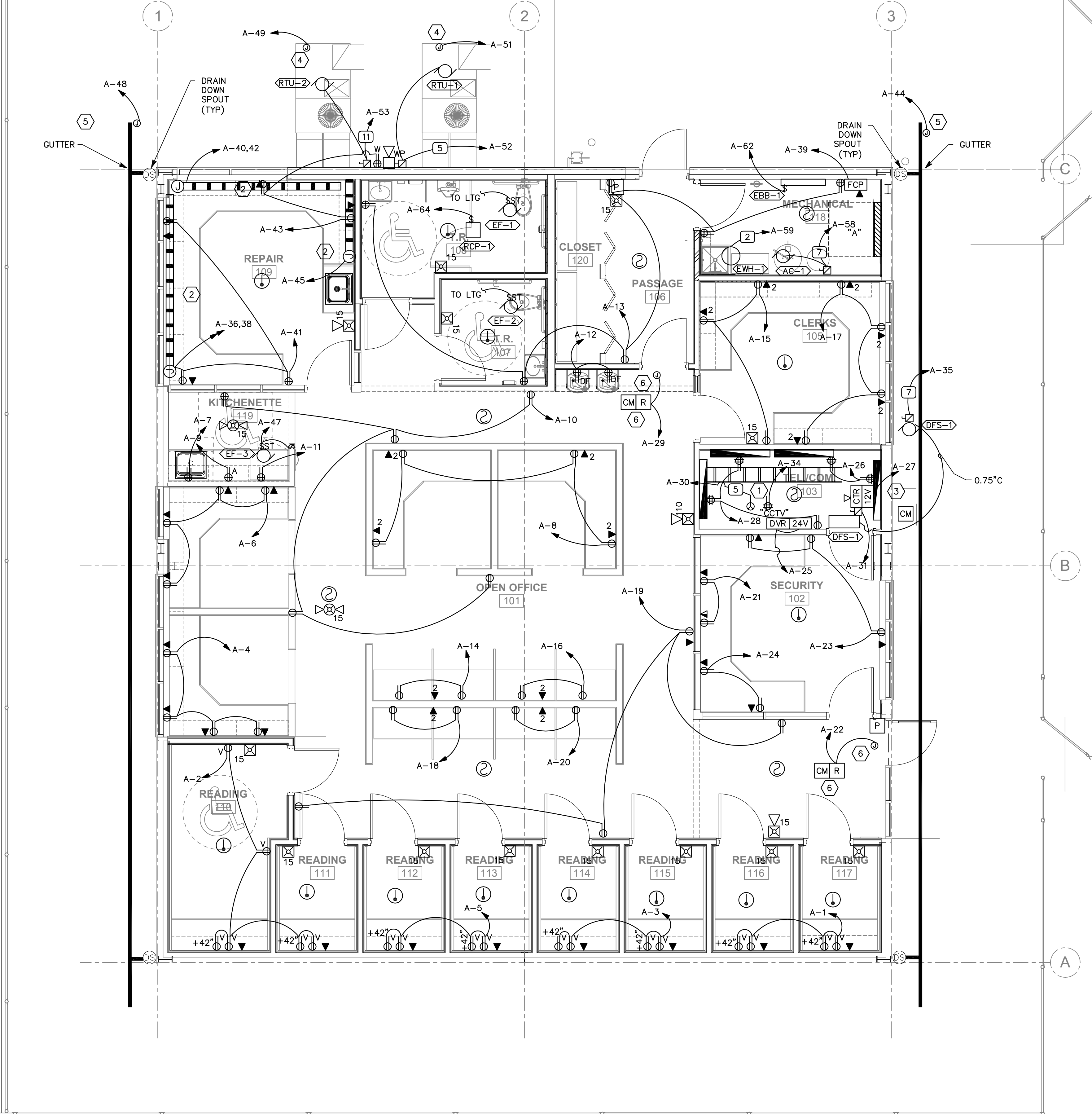
**ELECTRICAL  
SITE PLAN**

SHEET NUMBER:

**ES-101**



File Name: P:\2009\20090560\1Drawings\3Sheet\60EP-101.dwg Last Plotted: 2010/07/07 @ 10:17 AM By: wrt



GENERAL NOTES

1. ENGRAVE CIRCUIT NUMBER FOR ALL RECEPTACLES ON FACEPLATE OF RECEPTACLE.
2. FIRE ALARM SYSTEM SHALL BE CLASS "A" WIRING WITH SIMPLEX PANEL & EQUIPMENT. CONTACT SIMPLEX FOR BID.

SHEET KEYNOTES

1. COORDINATE LOCATION OF NEMA 6-30R RECEPTACLE & NEMA 5-20R RECEPTACLE WITH DATA INSTALLER. RUN POWER TO JUNCTION BOX IN CEILING AND RUN FLEX OR EMT CONDUIT TO THESE TWO RECEPTACLES AS DIRECTED BY DATA INSTALLER.
2. PROVIDE HUBBELL 3000G RACEWAY MOUNTED ABOVE DESK, WITH NEMA 5-20R DUPLEX RECEPTACLES SPACED 18" ON CENTER. ALL RECEPTACLES WITHIN 6' OF SINK SHALL BE GFCI. ALTERNATE CIRCUITS.
3. PROVIDE LADDER RACK IN COMMUNICATIONS ROOM (i.e. CHATSWORTH UNIVERSAL CABLE RUNWAY). PROVIDE THREADED ROD SUPPORTS FROM DECK EVERY 5'.
4. PROVIDE 120V CONNECTIONS TO MISCELLANEOUS 120V ITEMS IN ROOF TOP UNITS. COORDINATE WITH MECHANICAL CONTRACTOR.
5. PROVIDE HEAT TRACE AT DOWNSPOUTS AND LENGTH OF GUTTER SHOWN (i.e. RAYCHEM GM-2XT WITH TYCO GIT3A CONTROLLER OR ENGINEER APPROVED EQUIVALENT). RUN HEAT TRACE DOWN LENGTH OF DOWNSPOUT AND 6" BEYOND. PROVIDE TEMPERATURE AND MOISTURE SENSORS AND ALL OTHER REQUIRED COMPONENTS TO MAKE SYSTEM OPERATIONAL. BID ALL COSTS ASSOCIATED WITH HEAT TRACE AS ADD ALTERNATE #2.
6. PROVIDE CONNECTIONS TO DELAYED EGRESS DOOR HARDWARE. COORDINATE WITH DOOR HARDWARE INSTALLER.

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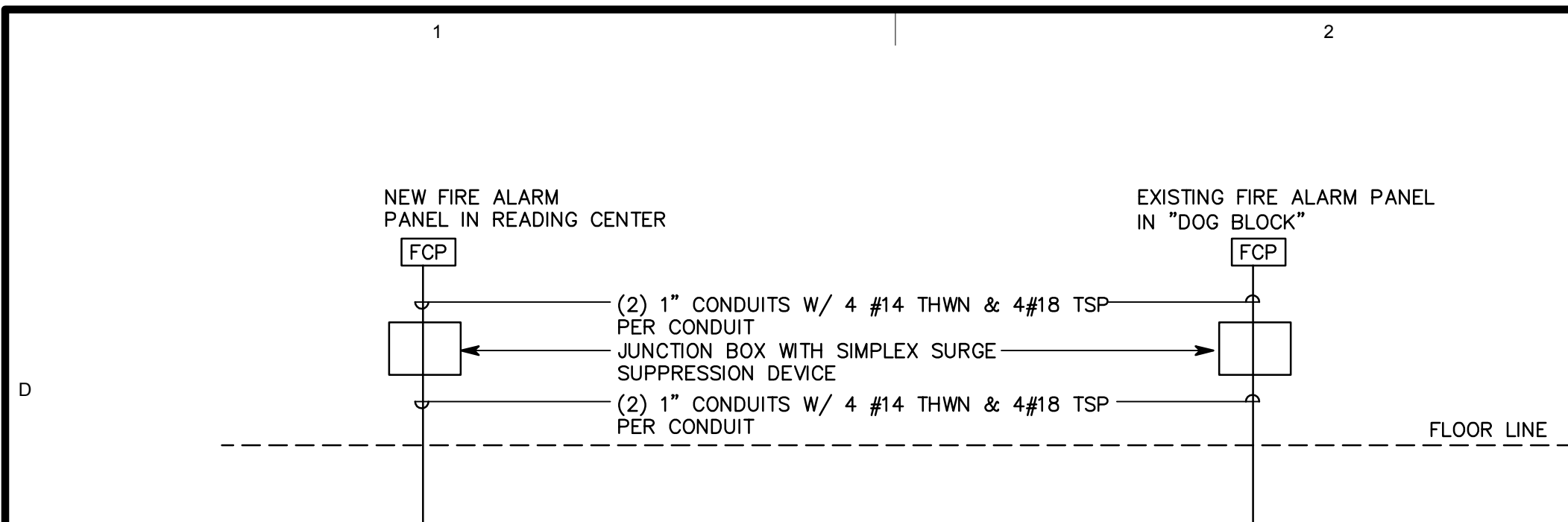
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**POWER PLAN**

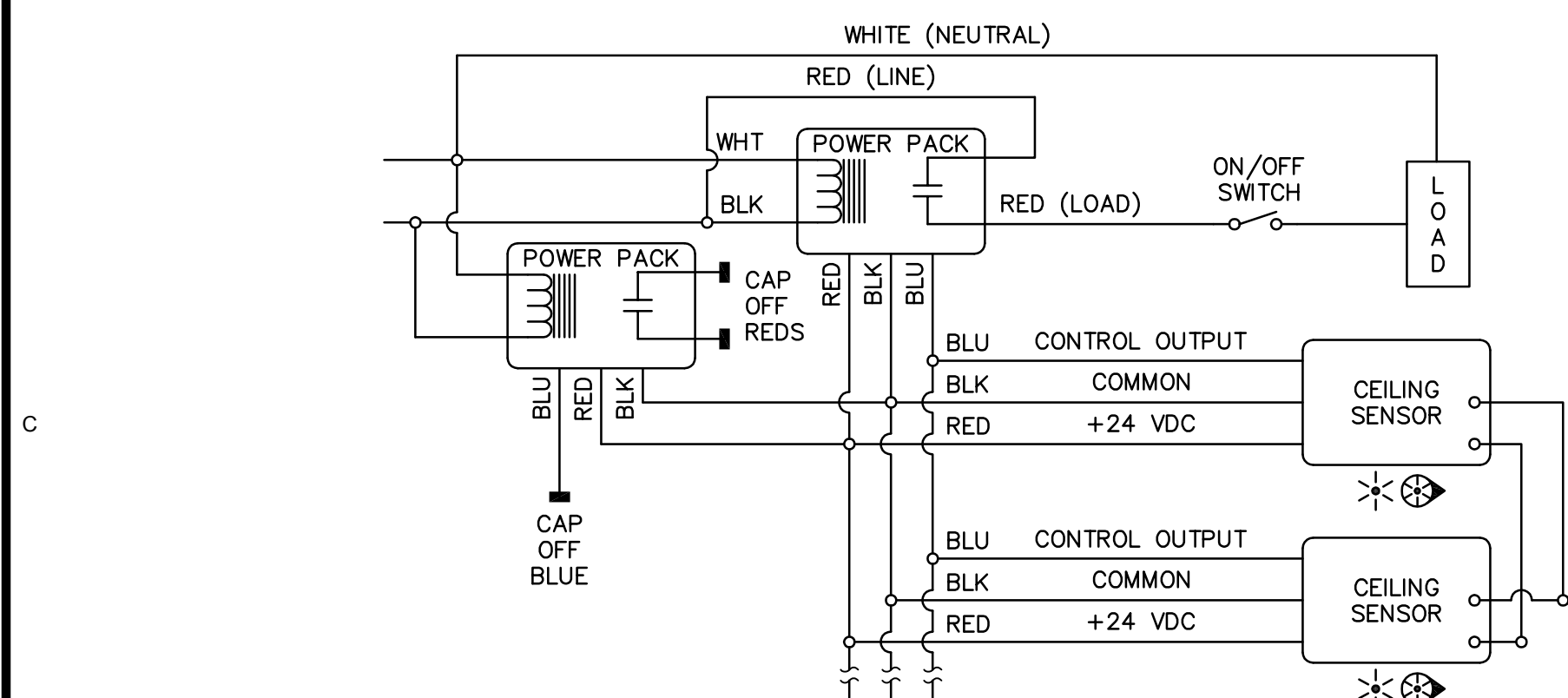
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**EP-101**

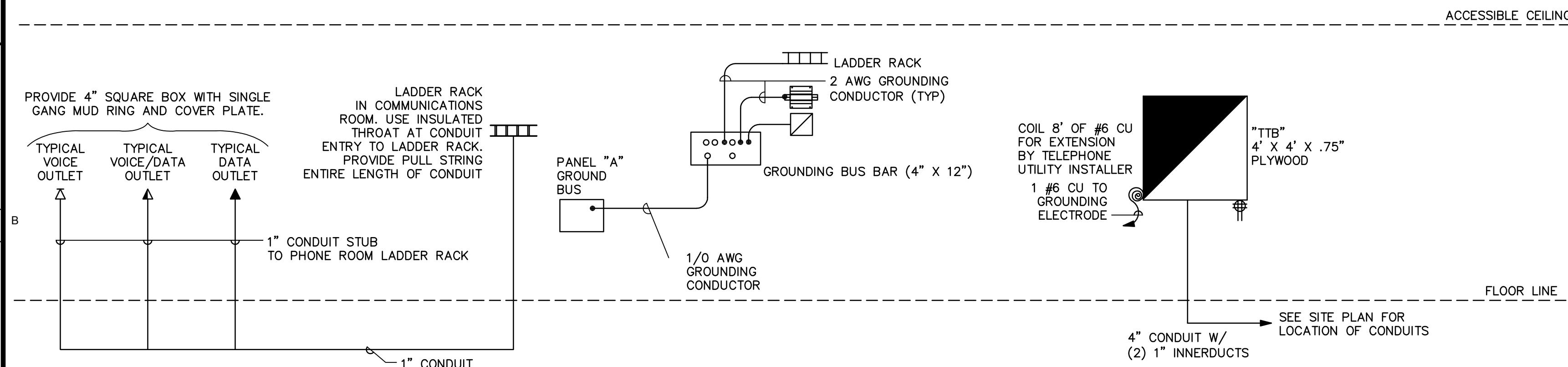




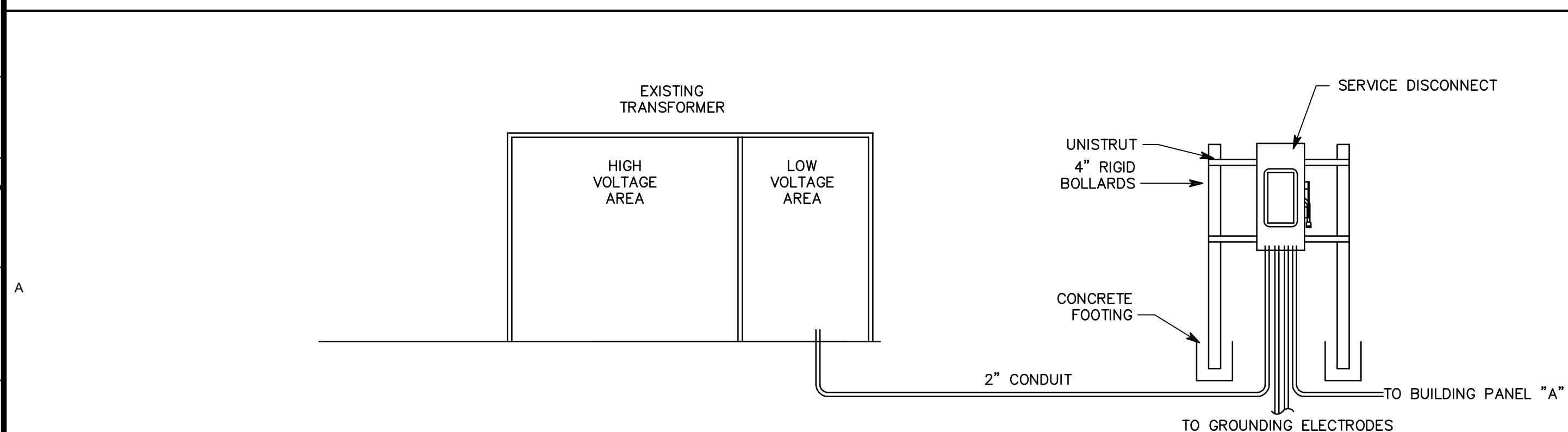
**(D1) FIRE ALARM RISER BETWEEN BUILDINGS**  
NO SCALE



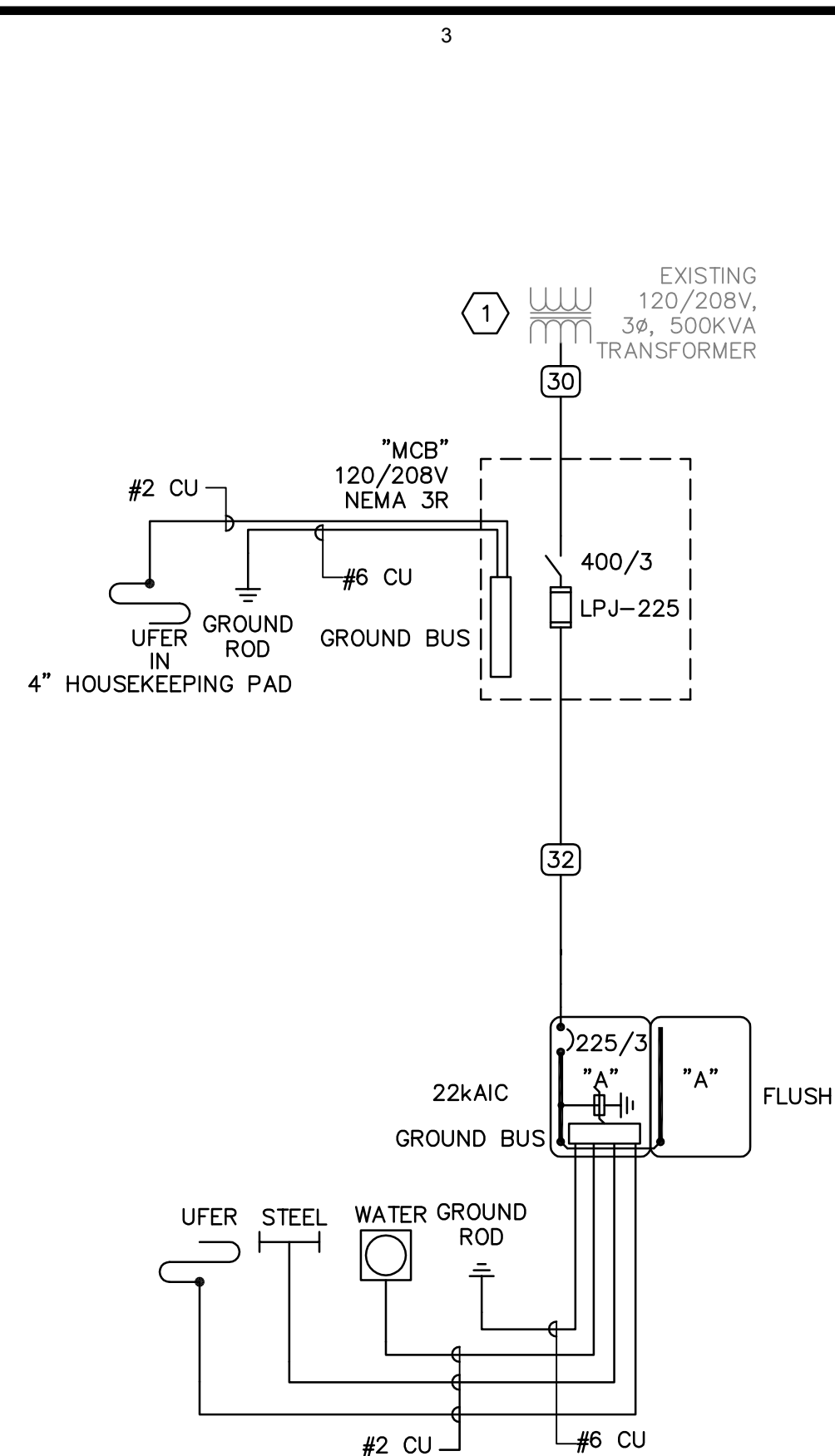
**(C1) ROOM WITH MULTIPLE CEILING SENSORS**  
NO SCALE



**B1** VOICE/DATA RISER  
NO SCALE



**A1** TRANSFORMER & DISCONNECT DETAIL



**C3 ONE-LINE DIAGRAM**  
NO SCALE

## CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) 5<sub>IG</sub>

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)			IG	SE	NOTES
			QTY	SIZE	G			
(1)	20	.75	2	12	12	12	8	2
(2)	20	.75	3	12	12	12	8	2,3
(3)	20	.75	4	12	12	12	8	2,3
(4)	30	.75	2	10	10	10	8	2
(5)	30	.75	3	10	10	10	8	2
(6)	30	.75	4	10	10	10	8	2
(7)	40	1	2	8	10	8	6	2
(8)	40	1	3	8	10	8	6	2
(9)	40	1	4	8	10	8	6	2
(10)	55	1	2	6	10	8	4	2
(11)	55	1	3	6	10	8	4	2
(12)	55	1.25	4	6	10	8	4	2
(13)	70	1	2	4	8	4	2	2
(14)	70	1.25	3	4	8	4	2	2
(15)	70	1.25	4	4	8	4	2	2
(16)	85	1.25	2	3	8	3	2	2
(17)	85	1.25	3	3	8	3	2	2
(18)	85	1.25	4	3	8	3	2	2
(19)	95	1.25	3	2	8	2	2	2
(20)	95	1.50	4	2	8	2	2	2
(21)	130	1.50	3	1	6	2	2	2
(22)	130	1.50	4	1	6	2	2	2
(23)	150	2	3	1/0	6	2	1/0	2
(24)	150	2	4	1/0	6	2	1/0	2
(25)	175	2	3	2/0	6	2	2/0	2
(26)	175	2	4	2/0	6	2	2/0	2
(27)	200	2	3	3/0	6	2	2/0	2
(28)	200	2.50	4	3/0	6	2	2/0	2
(29)	230	2.50	3	4/0	4	2	2/0	2
(30)	230	2.50	4	4/0	4	2	2/0	2
(31)	255	2.50	3	250	4	1	2/0	2
(32)	255	2.50	4	250	4	1	2/0	2
(33)	310	3	3	350	3	1/0	3/0	2
(34)	310	3	4	350	3	1/0	3/0	2
(35)	380	3.50	3	500	3	3/0	3/0	2
(36)	380	4	4	500	3	3/0	3/0	2
(37)	400	2 EA 2	3	3/0	3	3/0	3/0	2
(38)	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
(39)	510	2 EA 2.50	3	250	1	4/0	3/0	2

CONDUCTOR AND CONDUIT SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.

## GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO SPECIFICATIONS SECTION 16071 FOR REQUIREMENTS.
4. ALL ITEMS ON ONE-LINE DIAGRAM ARE NEW UNLESS NOTED AS EXISTING.

## SHEET KEYNOTES

1. EXISTING TRANSFORMER CONTAINS (2) SPARE CONDUITS & (3) SPARE LUGS PER PHASE. INSTALL DISCONNECT 3' NORTH OF TRANSFORMER, FACING NORTH. SEE SITE PLAN.

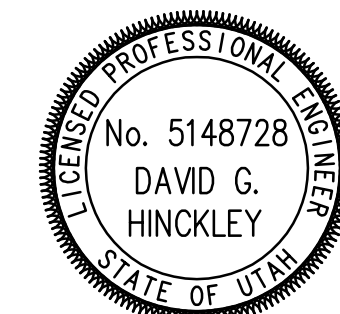
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SHEET TITLE: ONE-LINE DIAGRAM

SHEET NUMBER

# EP-601



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EQUIPMENT SCHEDULE																				
MARK	QTY	ITEM DESCRIPTION	LOAD DATA						WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			NOTES	MARK			
			HP	kW	MCA	FLA	VOLT	PH		Hz	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE			LOCATION	FURN BY	DEVICE
AC-1		AIR COMPRESSOR	3				208	1	60	2 #8, #10 GR 1" C	E	40A/2P CB	PANEL	E	30A/2P FRN-25	ADJ. TO EQUIP.	Q			AC-1
DFS-1A		DUCT FREE SPLIT (INDOOR)		.1			208	1	60	2 #12, #12 GR 0.75" C	E	15A/2P CB	PANEL	E	30A/2P FRN-5	ADJ. TO EQUIP.	Q		NOTE 1	DFS-1A
DFS-1B		DUCT FREE SPLIT (OUTDOOR)			21		208	1	60	2 #8, #10 GR 1" C	E	40A/2P CB	PANEL	E	30A/2P FRN-30	ADJ. TO EQUIP.	Q		NOTE 1	DFS-1B
EBB-1		ELECTRIC BASEBOARD HEATER		1			120	1	60	2 #12, #12 GR 0.75" C	E	20A/1P CB	PANEL	E	1-POLE SWITCH	ADJ. TO EQUIP.	Q			EBB-1
EF-1		EXHAUST FAN		.1			120	1	60	2 #12, #12 GR 0.75" C	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	WALL SWITCH	SEE PLANS	EF-1
EF-2		EXHAUST FAN		.1			120	1	60	2 #12, #12 GR 0.75" C	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	WALL SWITCH	SEE PLANS	EF-2
EF-3		EXHAUST FAN		.1			120	1	60	2 #12, #12 GR 0.75" C	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	WALL SWITCH	SEE PLANS	EF-3
EF-4		EXHAUST FAN		.1			120	1	60	2 #12, #12 GR 0.75" C	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	WALL SWITCH	SEE PLANS	EF-4
EWB-1		ELECTRIC WATER HEATER	3				208	3	60	3 #12, #12 GR 0.75" C	E	20A/3P CB	PANEL	E	3-POLE SWITCH	ADJ. TO EQUIP.	Q			EWB-1
RCP-1		RADIANT CEILING PANEL WATER HEATER		.4			120	1	60	2 #12, #12 GR 0.75" C	E	20A/1P CB	PANEL	E	1-POLE SWITCH	ADJ. TO EQUIP.	Q			RCP-1
RTU-1		ROOF TOP UNIT			19		208	3	60	3 #10, #10 GR 0.75" C	E	30A/3P CB	PANEL	E	30A/3P FRN-25	ADJ. TO EQUIP.	Q			RTU-1
RTU-2		ROOF TOP UNIT			30		208	3	60	3 #6, #10 GR 1.25" C	E	50A/3P CB	PANEL	E	60A/3P FRN-40	ADJ. TO EQUIP.	Q			RTU-2

NOTES LEGEND:  
1. RUN 0.75" CONDUIT BETWEEN INDOOR UNIT & OUTDOOR UNIT FOR CONTROL WIRING.

EQUIPMENT SCHEDULE KEY	
E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

PANEL "A"																									
VOLTS/PHASE/WIRE: 120/208 V, 3 PH 4 WIRE				PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON				MAIN SIZE & TYPE: 225 AMPERE MAIN CB				LOCATION:				CABINET: FLUSH		NOTES: 120KA TVSS							
ACCESSORIES:				PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFEED LUGS																					
CKT NO	DCP AMP POLE	LOAD (kVA)			DESCRIPTION	LCL kVA	PHASE LOAD			LCL kVA	DESCRIPTION	LOAD (kVA)			DCP AMP POLE	CKT NO									
		LTG	CD	PWR			A	B	C			LTG	CD	PWR											
1	20	1		0.8	READING 116&117 CO'S	0.8	1.9			1.1	READING 110&111 CO'S			1.1	20	1	2								
3	20	1		0.8	READING 114&115 CO'S	0.8		1.6		0.8	OPEN OFFICE CO'S			0.8	20	1	4								
5	20	1		0.8	READING 112&113 CO'S	0.8			1.6	0.8	OPEN OFFICE CO'S			0.8	20	1	6								
7	20	1		1.0	KITCHENETTE FRIDGE	1.0	1.8			0.8	OPEN OFFICE CO'S			0.8	20	1	8								
9	20	1		0.2	KITCHENETTE OUTLET	0.2		1.1		0.9	OPEN OFFICE CO'S			0.9	20	1	10								
11	20	1		1.2	MICROWAVE OUTLET	1.2			2.4	1.2	DRINKING FOUNTAINS			1.2	20	1	12								
13	20	1		1.1	STORAGE/RESTRM CO'S	1.1	1.5			0.4	OPEN OFFICE CO'S			0.4	20	1	14								
15	20	1		0.6	CLERKS 105 CO'S	0.6		1.0		0.4	OPEN OFFICE CO'S			0.4	20	1	16								
17	20	1		0.8	CLERKS 105 CO'S	0.8			1.2	0.4	OPEN OFFICE CO'S			0.4	20	1	18								
19	20	1		0.8	OPEN OFFICE CO'S	0.8	1.2			0.4	OPEN OFFICE CO'S			0.4	20	1	20								
21	20	1		0.4	SECURITY 102 OUTLETS	0.4		1.4		1.0	DOOR POWER			1.0	20	1	22								
23	20	1		0.6	SECURITY 102 OUTLETS	0.6			1.0	0.4	SECURITY 102 OUTLETS			0.4	20	1	24								
25	20	1		0.5	SECURITY PANELS	0.5	1.3			0.8	COMM RM OUTLETS			0.8	20	1	26								
27	20	1		0.5	SECURITY PANELS	0.5		1.3		0.8	COMM RM OUTLETS			0.8	20	1	28								
29	20	1		0.5	DOOR POWER	0.5			1.5	1.0	SERVER EQUIPMENT			1.0	30	2	30								
31	15	2		0.1	DFS-1 (INDOOR)	0.1	1.1			1.0	-			1.0	20	1	32								
33	-	-		0.1	-	0.1		1.1		1.0	SERVER EQUIPMENT			1.0	20	1	34								
35	40	2		0.1	DFS-1 (OUTDOOR)	0.1			1.1	1.0	REPAIR OUTLETS			1.0	20	1	36								
37	-	-		0.1	-	0.1	1.1			1.0	REPAIR OUTLETS			1.0	20	1	38								
39	20	1		0.5	FIRE ALARM PANEL	0.5		1.5		1.0	REPAIR OUTLETS			1.0	20	1	40								
41	20	1		0.6	REPAIR OUTLETS	0.6			1.6	1.0	REPAIR OUTLETS			1.0	20	1	42								
43	20	1		0.6	REPAIR OUTLETS	0.6	1.1			0.5	HEAT TAPE			0.5	20	2*	44								
45	20	1		1.0	REPAIR OUTLETS	1.0		1.5		0.5	(GFEP BREAKER)			0.5	GFI	GFI	46								
47	20	1		0.2	EF-3,4	0.2			0.7	0.5	HEAT TAPE			0.5	20	2*	48								
49	20	1		0.2	RTU-2 CONTROL CIRCUIT	0.2	0.7			0.5	(GFEP BREAKER)			0.5	GFI	GFI	50								
51	20	1		0.2	RTU-1 CONTROL CIRCUIT	0.2		2.5		2.3	RTU-1			2.3	30	3	52								
53	50	3		3.6	RTU-2	3.6			5.9	2.3	-			2.3	-	-	54								
55	-	-		3.6	-	3.6	5.9			2.3	-			2.3	-	-	56								
57	-	-		3.6	-	3.6		5.6		2.0	AC-1			2.0	40	2	58								
59	20	3		1.5	EWB-1	1.5			3.5	2.0	-			2.0	-	-	60								
61	-	-		1.5	-	1.5	2.5			1.0	EBB-1			1.0	20	1	62								
63	-	-		1.0	-	1.0			1.4	0.4	RCP-1			0.4	20	1	64								
65	20	1	1.3		RESTRM/STOR/CLERK LTG	1.6			1.3	0.0	SPARE				20	1	66								
67	20	1	0.8		SECURITY/READING LTG	1.0	0.8			0.0	SPARE				20	1	68								
69	20	1	1.4		OPEN OFFICE LIGHTING	1.8			1.4	0.0	SPARE				20	1	70								
71	20	1			SPARE	0.0				0.0	SPARE				20	1	72								
73	20	1			SPARE	0.0	0.0			0.0	SPARE				20	1	74								
75	20	1			SPARE	0.0		0.0		0.0	SPARE				20	1	76								
77	20	1			SPARE	0.0			0.0	0.0	SPARE				20	1	78								
79	20	1			SPACE	0.0	0.0			0.0	SPARE				20	1	80								
81	20	1			SPACE	0.0		0.0		0.0	SPARE				20	1	82								
83	20	1			SPACE	0.0			0.0	0.0	SPARE				20	1	84								
TOTALS:		CONNECTED kVA PER PHASE				21	21	22	CONNECTED TOTAL kVA				64	CONNECTED AMPS PER PHASE				174	178	182	CONNECTED AVERAGE AMPS PER PHASE				178
NEC DIVERSIFIED LOAD CALCULATIONS																									
LIGHTING 4kVA @125% =				4 kVA				ALL OTHER LOADS @100% =				40 kVA				DIVERSIFIED TOTAL kVA =				59					
RECEPTACLES 10kVA @100% =				10 kVA				25% OF LARGEST MOTOR =				0 kVA				AVERAGE AMPS PER PHASE =				165					
REMAINDER 11kVA @ 50% =				6 kVA																					

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NEW LIBRARY  
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SHEET TITLE

EQUIPMENT &  
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## LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

LINEAR FLUORESCENT FIXTURES MARKED "HIGH EFFICIENCY" USE 32 WATT 3100 INITIAL LUMEN LAMPS WITH .78 BALLAST FACTOR ELECTRONIC BALLAST. LAMPS: OSI "XPS" SERIES, PHILIPS "ADV" SERIES, GE "T8 ULTRA HIGH LUMEN", BALLASTS; ADVANCE "IDP" SERIES, OSI "PROSTART PSX", GE ULTRASTART SERIES.

FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR						
SYMBOL MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER CATALOG NUMBER	NOTES
CM	STEEL LINEAR FIXTURES: LENGTHS AND CONFIGURATIONS SHOWN ON THE DRAWINGS; LAMPS FOUR FOOT WHERE POSSIBLE; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; INTERNAL CONCEALED FASTENERS; COLOR AS NOTED AND/OR APPROVED BY ARCHITECT; ORIENT FIXTURE ACCORDING TO ARCHITECTS/ ENGINEER'S INSTRUCTIONS. SWIVEL STEM MOUNT UNLESS NOTED OTHERWISE. INSTALL LEVEL AND STRAIGHT WITH INVISIBLE SPLICES. PROVIDE ALL REQUIRED HANGERS, SPLICERS, END CAPS, JOINTS, FEEDS, ETC., FOR A COMPLETE INSTALLATION.					
CM-7	MODULAR, INDIRECT MOSTLY, ADJUSTABLE AIRCRAFT CABLE, PERFORATED, NOMINAL 9" X 3" OBROUND PROFILE, HIGH EFFICIENCY (SEE HEADER)	2-F32T8 RE835	60W/4'	277/120V	LITECONTROL CORELITE FINELITE PRUDENTIAL LIGHTOLIER LSI	SAE-P-ID-9800-PBCWM-.78BF IB-W-B-2-T8-1-C-UNV-A-C-X-ES-.78BF S12-ID-PLV-XX'-2/T8-SC-91W-OPEN-UNV-FA-FE-.78BF 2T8 04 BLW TMW D3 SC MVB CA48 X1-.78BF LP9-2-A-2T8-X-.78BF LDI-X-FB-2-32-.78BF
DF	FLUORESCENT DOWNLIGHT; THERMALLY PROTECTED HOUSING: TO ACCOMMODATE MULTIPLE TRIMS AND REFLECTOR ASSEMBLIES FOR LAMPS AS LISTED BELOW; ELECTRONIC BALLASTS; LOW IRIDESCENT REFLECTOR FINISH (EVEN IF NOT SHOWN IN CATALOG #); SELF FLANGING TRIM UNLESS NOTED.					
DF-17	RECESSED DOWNLIGHT; VERTICAL, 6" APERTURE, 32W CF-AMALGAM LAMP, CLEAR.	1-CF-A32 50W RE835	277/120V	LIGHTOLIER LITHONIA OMEGA PRESCOLITE PORTFOLIO INFINITY	8021CCLW/6132BU (12-3/4 X 10 X 9-3/8) AFV 32TRT 6AR MVOLT (15-13/16 X 12-15/16 X 10-7/8) S632PLT-U-T6-CS (11-11/16 X 11-7/16 X 11-3/8) CFT632EB-STF602 (16-1/4 X 14-7/16 X 10-9/16) C6032E-6051U (12 X 11-1/2 X 9-1/2) PV60 132T-EB (GX24Q-3) 120 BH (16-1/4 X 12 X 9-5/8)	
EDF-17	RECESSED DOWNLIGHT; VERTICAL, 6" APERTURE, 32W CF-AMALGAM LAMP, CLEAR. (EMERGENCY)	1-CF-A32 50W RE835	277/120V	PORTFOLIO INFINITY LIGHTOLIER LITHONIA OMEGA PRESCOLITE	C6032EEM-6051U PV60 132T-EB (GX24Q-3) EM 277 BH 8021CCLW/6132BU EM AFV 32TRT 6AR MVOLT EL S632PLT-IE-U-T6-CS-IE CFT632EBEM-STF602	
E	E PREFIX INDICATES THAT FIXTURE IS PROVIDED WITH AN EMERGENCY BATTERY PACK TO PROVIDE POWER TO ANY 2, 3, 4 OR 8 FOOT FLOURESCENT LAMP COMPATIBLE WITH ALL STANDARD AND ELECTRONIC BALLASTS; COMPLETELY SELF-CONTAINED TO PROVIDE 90 MINUTES OF EMERGENCY POWER TO FIXTURE BALLAST; MINIMUM LIGHT OUTPUT FOR TYPICAL 4' LAMP SHALL BE 1100 LUMENS OR HIGHER;UNIVERSAL TRANSFORMER FOR 120 OR 277 VOLTS; LOW VOLTAGE PROTECTION, COMBINATION TEST SWITCH AND AC "ON" INDICATOR; 10 YEAR PRO-RATA WARRANTY; INSTALL TEST SWITCH IN A MANNER THAT REQUIRES NO DISASSEMBLY FOR TESTING.					
E	EMERGENCY BATTERY PACK.	120/277V3W		IOTA BODINE LITHONIA PRESCOLITE EELP CHLORIDE LIGHTOLIER SIDELITE	I-80 B50 PS-1400 EFPS-5 EB1400 (CONTRACTOR INSTALLED) CFP841 FBP50 S60F	
E3	EXIT SIGN: CAST ALUMINIUM HOUSING; UNIVERSAL MOUNTING; UNIVERSAL ARROWS PER PLANS; EMERGENCY BATTERY PACK WITH 10 YEAR PRO-RATA WARRANTY; LED, DIFFUSE LENS PANEL; GREEN LETTERS ON WHITE BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS.					
E3-1	SINGLE FACE:	LED	1W	120/277V	DUAL-LITE EELP LITHONIA SURE-LITES MCPHILBEN CHLORIDE LIGHTOLIER	LCSGWE CA 1G WW EM LES W 1 G 120/277 ELN CX7170GW ER55L-1-12/27-WG CXLN1GW LDN1GW
G	INDIRECT TROFFERS: RECESSED FOR LAY-IN GRID; HINGED FLUSH STEEL DOOR WITH LATCH; EARTHQUAKE CLIPS, PROGRAM START ELECTRONIC BALLASTS; LONG COMPACT FLUORESCENT LAMPS; ONE BALLAST PER FIXTURE, 100-10% DIMMING BALLAST WHERE SHOWN.					
G-2	2X4, 3-LAMP. CENTER BASKET; HIGH EFFICIENCY (SEE HEADER)	3-F32T8 RE835	75W	277/120V	METALUX PRUDENTIAL DAYBRITE LITECONTROL LSI	2RDI-332RP-SPECEB-ER81-.78BF CL6038-24-332T8-X1-UNIVOLT-.78BF 2AVG332-PMW-UNV-1/3EB-SPEC-.78BF G-D-TD24C-34T8-CWM-TW-ELB-HE-.78BF 2LLGC 332T8 SSO10PS RPW UE-.78BF
G-2F	FLANGE-TRIM VERSION OF G-2				LITHONIA LIGHTOLIER	T2AVG 332T8 MDR SMD MVOLT TUBRHP-.78BF CFS2GPF332-UNV-SO-OSR/PSX-.78BF
G-2A	2-LAMP VERSION OF G-2					
G-2AF	FLANGE-TRIM VERSION OF G-2A					
S	FLUORESCENT STRIP LIGHT; STEEL CONSTRUCTION; WHITE PAINTED FINISH; SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.					
S-1	4', 1-LAMP. HIGH EFFICIENCY (SEE HEADER)	1-F32T8 RE835	40W	277/120V	LITHONIA LIGHTOLIER METALUX DAYBRITE HUBBELL COLUMBIA	C132-MVOLT-TUBRHP-.78BF SW132-U-SOP--.78BF SS-132-UNV-PROGRAM START--.78BF T132-UNV-EB-SPEC--.78BF S132UPS--.78BF CS4-132-EB8120/277 PROG--.78BF
VM	RECESSED HIGH SECURITY LUMINAIRE: .25" TEMPERED GLASS ON PUBLIC SIDE AND .187" INJECTION MOLDED POLYCARBONATE LENS ON INSIDE; UV STABILIZED MATERIALS; ALL METAL PARTS; GASKETED; SECURITY SCREWS; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS.					
VM-4	SURFACE 2-LAMP 1X4; 12 GAUGE STEEL. HIGH EFFICIENCY (SEE HEADER)	2-F32TB RE835	120W	277/120V	KENALL MORELITE LA LIGHTING NEW STAR FAIL-SAFE MORELITE	SCA4-9/0-232SB1-UNV-6/A-1-.78BF SHXX-14-232HET8-7/F-F2-.78BF MSE110-2-4R-VL37-TP-GSK-2E8PSX-UNV-.78BF 53-142-120-.250CTG/187PPC-UNV-EB-SPEC-.78BF FMS-S12-232-UNV-93-85-ER81-.78BF SMAXSH14-2-T8-EB10IS-7/F-F2-.78BF

W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS WRAPAROUND ACRYLIC PRISMATIC DIFFUSER; WHITE ENAMEL ENDPLATES; MINIMUM CU OF 70 @ 80/50/20 AND RCR=1; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.				
W-3	NARROW BODY WRAPAROUND; 2-LAMP, APPROX; 3" X 10" X 48". HIGH EFFICIENCY (SEE HEADER)	2-F32T8 RE835	65W	277/120V LITHONIA DAYBRITE METALUX LIGHTOLIER LSI COLUMBIA	LB232-MVOLT-TUBPHP-.78BF CAN232-UNV-1/2-EB-SPEC-.78BF WS-232A-UNV--.78BF WA232-U-SOP-.78BF PR 232 SSO10PRS -.78BF WC4-232-EBPS120/277-.78BF
WB	WALL MOUNTED FLUORESCENT LOCATED ABOVE WALL ELEMENT (MIRROR/WHITEBOARD, ETC.): AS INDICATED ON DRAWINGS; WITH ACRYLIC INJECTION MOLDED; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.				
WB-1	1-LAMP, WALL MOUNT 48", STEEL ENCLOSURE, DOWNLIGHT ONLY; ACRYLIC INJECTION MOLDED PRISMATIC DIFFUSER. HIGH EFFICIENCY (SEE HEADER)	1-F32T8 RE835	40W	277/120V DAYBRITE LIGHTOLIER METALUX L.A.L. COLUMBIA LITHONIA LSI	CD132W-UNV-EB-SPEC-.78BF CWB132-WB-U-SOP-.78BF BI-132-UNV-PROGRAM START-.78BF BSQ100-1-4R-INJ-WHT-T8EB-120/277-UPS-.78BF WAL4-132-EBPS120/277-.78BF WP 132 DO MVOLT-TUBPHP-.78BF WB 132 SSO10PRS UE-.78BF
WB-3	2-LAMP, WALL MOUNT 48", STEEL ENCLOSURE, DOWNLIGHT ONLY; ACRYLIC INJECTION MOLDED PRISMATIC DIFFUSER. HIGH EFFICIENCY (SEE HEADER)	2-F32T8 RE835	65W	277/120V DAYBRITE LIGHTOLIER METALUX L.A.L. COLUMBIA LITHONIA LSI	CD232W-UNV-1/2-EB-SPEC-.78BF CWB232-WB-U-SOP-.78BF BI-232-UNV-PROGRAM START-.78BF BSQ100-2-4R-INJ-WHT-T8EB-120/277-UPS-.78BF WAL4-232-EBPS120/277-.78BF WP 232 DO MVOLT-TUBPHP-.78BF WB 232 SSO10PRS UE-.78BF

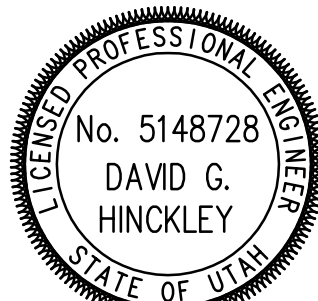
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READING FOR THE BLIND  
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FIXTURE  
SCHEDULE

SHEET NUMBER:

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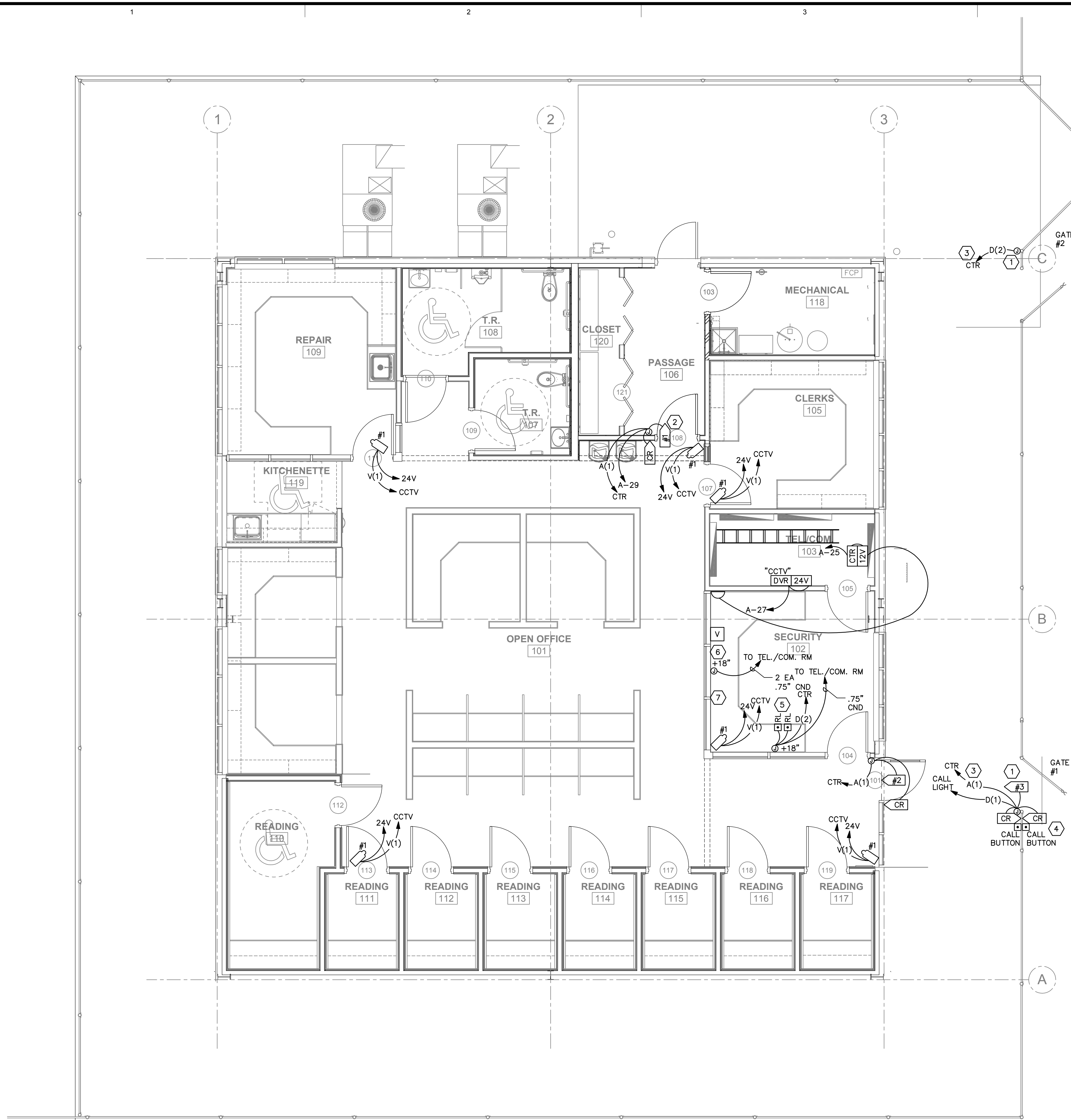
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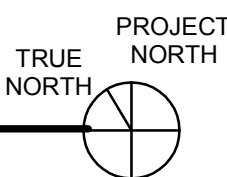
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**SECURITY PLAN**



## GENERAL SHEET NOTES

1. PROVIDE RACEWAY, BOXES, AND PULL STRINGS ONLY FOR CCTV ELECTRONICS AND WIRING INDICATED AS PART OF BASE BID. ALL HOME-RUNS FROM CAMERA SHOWN ARE TO BE IN CONDUIT. PROVIDE INSTALLED PRICING FOR CCTV ELECTRONICS AND WIRING IN ALTERNATE #1.
2. PROVIDE ACCESS CONTROL AND CALL LIGHT SYSTEMS AS INDICATED IN BASE BID. CAMERAS/DVR ARE BY OWNER (N.I.C.).
3. PROVIDE .75" CND (MIN) FOR ALL SECURITY SYSTEMS HOME-RUNS.
4. PROVIDE TAC I/NET ACCESS CONTROL AND HID CARD READERS TO MATCH EXISTING PRISON ACCESS CONTROL SYSTEM. INCLUDE SYSTEM SETUP FOR INTEGRATION TO EXISTING PRISON-WIDE SECURITY SYSTEMS.

## SHEET KEYNOTES

1. PROVIDE FIRE ALARM UNLOCKING OF GATE LOCKS (BY GATE PROVIDER) UPON ALARM. INCLUDE ALL REQUIRED RACEWAY/WIRING TO LOCKS. COORDINATE REQUIREMENTS WITH GATE PROVIDER.
2. PROVIDE FIRE ALARM UNLOCKING OF DELAYED EGRESS EXIT DEVICE UPON ALARM.
3. PROVIDE UNDERGROUND RACEWAY/WIRING TO GATE CARD ACCESS INTERFACES, FIRE ALARM INTERFACES AND CALL BUTTONS AS REQUIRED.
4. PROVIDE BOLLARD ON EACH SIDE OF GATE TO MOUNT CARD READERS AND CALL BUTTONS 48" AFF.
5. PROVIDE REMOTE RELEASE OF DOOR 101 AND MAIN GATE IN SECURITY 102.
6. PROVIDE DVR KEYBOARD, MOUSE, AND 22" LCD FLAT SCREEN MONITOR AT INDICATED LOCATION.
7. PROVIDE CARD ACCESS CONTROL SOFTWARE AND HOST COMPUTER WORK STATION WITH 22" LCD FLAT SCREEN MONITOR IN SECURITY 102. INCLUDE REMOTE ACCESS CAPABILITY WITH CONNECTION TO OWNER'S LAN.

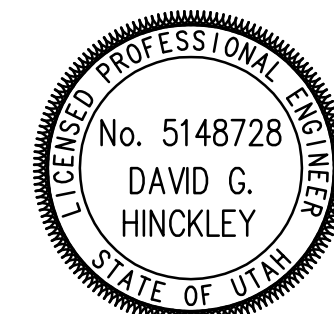
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**SECURITY  
PLAN**

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**EY-101**



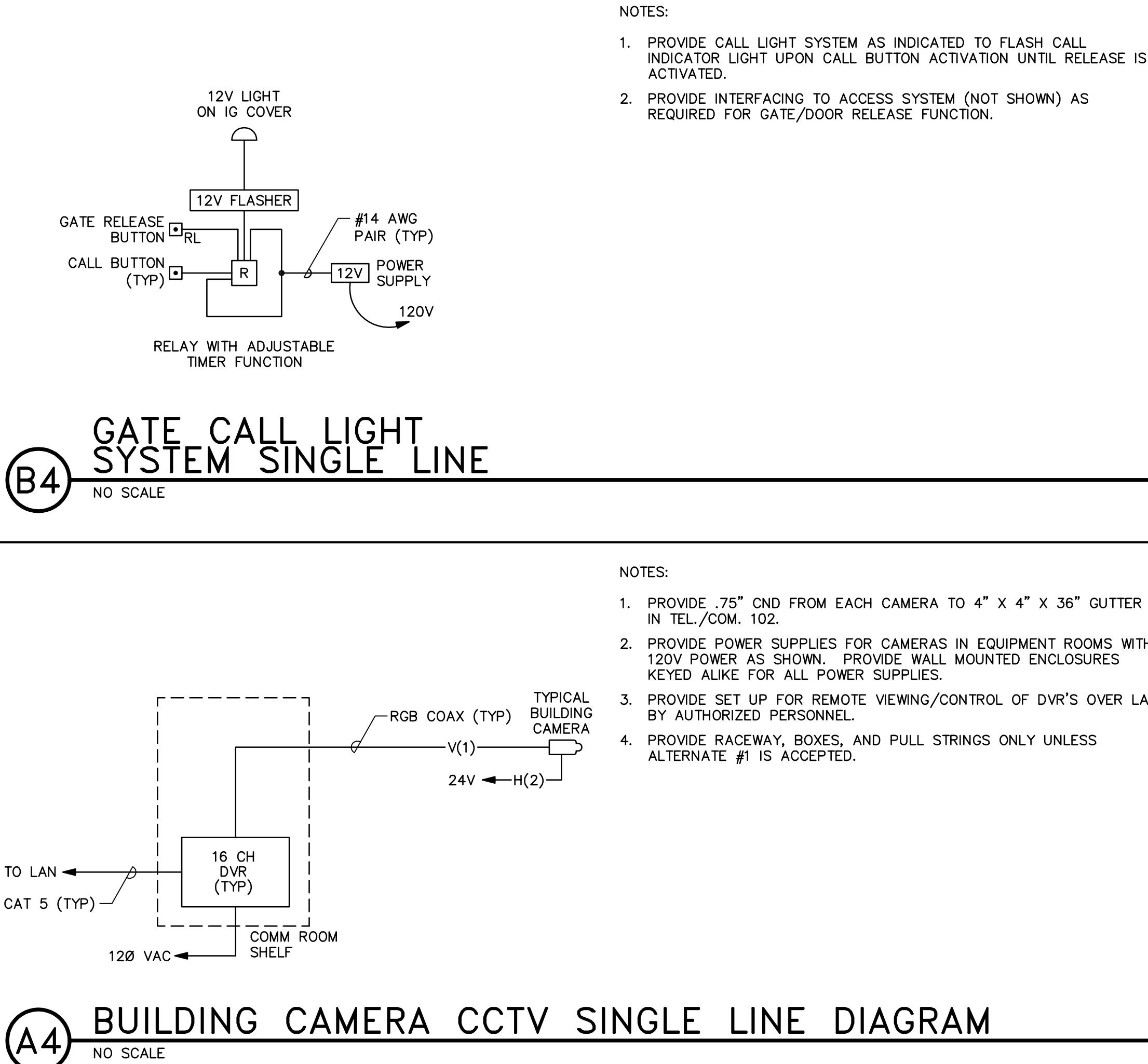
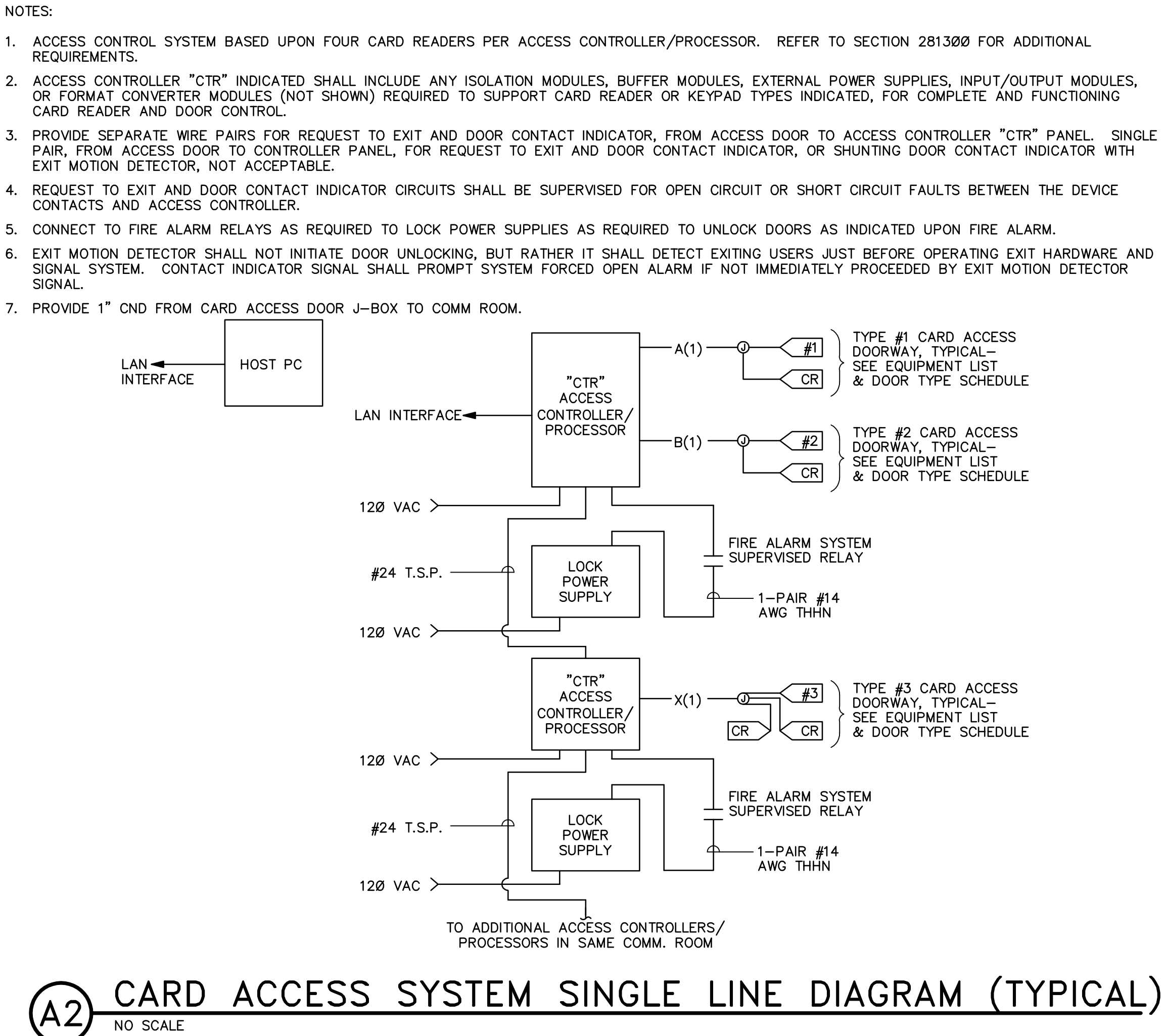
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CARD ACCESS DOOR TYPE SCHEDULE (TYPICAL)					
DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)
TYPE 1:		SINGLE DOOR, 2 CARD READERS, (SINGLE DIR EGRESS W/15 SEC. DELAYED EGRESS ALARM)			DELAYED EGRESS ELECTRIC STRIKE AND SWITCH PANIC HDWR
TYPE 2: (S1)		SINGLE DOOR, 1 CARD READER, AUTO DOOR, (FREE EGRESS)			ELECTRIC STRIKE
TYPE 3:		MAIN GATE, 2 CARD READERS			MAG LOCK
			INCLUDES:		
			* CARD READER * CONTACT INDICATOR (BY DOOR HDWR) * DELAYED EGRESS MAG LOCK (LOCK BY DOOR HDWR) * PWR TRANSFER HINGE (BY DOOR HDWR) * POWER SUPPLY (BY DOOR HDWR)		
			* CARD READER * EXIT MOTION DETECTOR * CONTACT INDICATOR (BY DOOR HDWR) * LOCK PWR (LOCK BY DOOR HDWR) * AUTO-DOOR RELAYS (REFER TO AUTO-DOOR ACCESS CONTROL DETAIL) * AUTO-DOOR PUSH-PADS (PUSH-PAD BOX LOCATIONS SHOWN ON FLPL'S)		
			* CARD READERS * LOCK POWER * MAG LOCK (BY DOOR HDWR) * CONTACT INDICATOR (BY DOOR HDWR)		

SECURITY EQUIPMENT LIST (TYPICAL)					
SYMBOL	DESCRIPTION	MOUNTING *	ROUGH-IN	QTY	ACCEPTABLE TYPES
	CARD READER	40"	4SQ W/ 1G RING	OFF	SEE SECTION 281300
	CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFF	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
	CCTV CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO CCTV CAMERA/ENCLOSURE TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFF	SEE CCTV CAMERA/ENCLOSURE TYPE SCHEDULE AND SECTION 282300
	DOOR RELEASE BUTTON (PROGRAMMABLE SYSTEM INPUT)	ON COUNTER J-BOX - 18"	4SQ W/ 1G RING	OFF	SEE SECTION 281300
	CALL BUTTON	UNDER COUNTER J-BOX - 18"	4SQ W/ 1G RING	OFF	SEE SECTION 281300
	CCTV MONITOR EQUIPMENT (AS NOTED)	COUNTER TOP	4SQ W/ 1G RING	OFF	SEE SECTION 282300
	CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GUTTER & STUBS A/R	A/R	SEE SECTION 281300
	TRANSIENT VOLTAGE SURGE SUPPRESSER "TVSS"	AS NOTED	A/R	A/R	SEE SECTION 281300 AND 282300
	CALL LIGHT POWER SUPPLY/FLASHER	72"	.75" CND	OFF	SEE SECTION 281300
	CAMERA POWER SUPPLY	72"	4"x4" GUTTER & STUBS A/R	A/R	SEE SECTION 282300
	RELAY	ABOVE ACC CEILING	4SQ W/ 1G RING & COVER	OFF	SEE SECTION 281300
	DIGITAL VIDEO RECORDER	RACK	A/R	OFF	SEE SECTION 282300
	FLASHING CALL INDICATOR LIGHT	80"	4SQ W/ 1G RING	OFF	SEE SECTION 281300
	JUNCTION BOX	ACC CEILING	4SQ W/ COVER	OFF	
	INTRUSION DETECTION CABLE. NUMBER IN PARENTHESES INDICATE QUANTITY.	AS NOTED	.75" CND	OFF	BELDEN 8442 WEST PENN 221
	THHN CABLE FOR CAMERA POWER, #14 AWG. NUMBER IN PARENTHESES INDICATE QUANTITY.	AS NOTED	.75" CND	OFF	2 EA. THHN
	CCTV COAX VIDEO SIGNAL CABLE. NUMBER IN PARENTHESES INDICATE QUANTITY.	AS NOTED	.75" CND	OFF	BELDEN 8221 WEST PENN 806
	MISC. CABLES. NUMBER IN PARENTHESES INDICATE QUANTITY.	AS NOTED	.75" CND	OFF	AS NOTED AND PER MANUFACTURER'S WRITTEN INSTRUCTIONS

\* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

CCTV CAMERA/ENCLOSURE TYPE SCHEDULE (TYPICAL)			
CAMERA TYPE NUMBER	SYMBOL	DESCRIPTION	INCLUDES
TYPE 1		INTERIOR CAMERA - FIXED DOME (CEILING MOUNTED)	* CAMERA/ENCLOSURE (HIGH SECURITY) * SIGNAL CABLE AS INDICATED TO HEADEND * 24 VAC PWR TO COMM ROOM POWER SUPPLY



ARCHITECT'S INFORMATION

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PROFESSIONAL STAMP:

CONSULTANTS:

PROJECT NAME:

READING FOR THE BLIND  
NEW LIBRARY  
DRAPER PRISON

REVISIONS:

NO.	DATE	DESCRIPTION
1	Date 1	Revision 1

ISSUED:

NO.	DATE	DESCRIPTION
#1	11/12/2010	DESIGN DEVELOPMENT SUBMITTAL
#2	1/4/2011	BID DOCUMENTS
#3	7/17/2011	BID DOCUMENTS (REDESIGN)

OWNER PROJECT #: 09223080  
SPE PROJECT #: 09-12  
DRAWN BY: RRP/DGH  
CHECKED BY: DGH  
DESIGNED BY: DGH

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SHEET TITLE

SECURITY  
DIAGRAMS &  
SCHEDULES

SHEET NUMBER

EY-601